EN 778

ISSN 0032-0803

CAB ABSTRACTS

Plant Breeding Abstracts

CAB INTERNATIONAL
Library Services Centre
12 APR 1995

1994 Volume 64 Annual Indexes

Includes List of Source Journals

CAB INTERNATIONAL
00147375

CENTRE FOR AGRICULTURE AND BIOSCIENCES INTERNATIONAL
CAB INTERNATIONAL

CAB INTERNATIONAL
Wallingford, Oxon OX10 8DE, UK
Telephone: Wallingford (01491) 832111
Telex: 847964 (COMAGG G) Fax: (01491) 833508
Telecom Gold/International Dialcom: 84: CAU001

Plant Breeding Abstracts

A monthly journal compiled from the CAB ABSTRACTS database
with reviews by leading plant breeders.
Produced by the DIVISION OF CROP PROTECTION AND GENETICS

Editor
A.M. Praciak BSc

Associate Editor
D.G. Massey BSc

Editorial Advisory Board
Mesfin Ameha (Addis Ababa, Ethiopia)
R.K. Downey (Saskatoon, Canada)
A.J. Kennedy (St George, Barbados)
G.S. Khush (Manila, Philippines)
T.J. McCoy (Bozeman, USA)
J. Rod (Brno, Czech Republic)
D.R. Sampson (Ottawa, Canada)
N.W. Simmonds (Edinburgh, UK)
J.P. Srivastava (Washington, DC, USA)

Head of Division
P.R. Scott MA, PhD

Head of Department of Plant Breeding & Genetics
S.L.A. Hobbs MA, DPhil

Scientific Information Officers
K.A. Binks BSc, MSc
B.F. Cooper MA, PhD
H.J. Dawson BSc, MSc, PhD
D.J. Hemming BSc, PhD
K.H. Lipp-Nissinen BSc, MSc, PhD
J.E. Loder BSc, MSc
D.G. Massey BSc
D.E. Mitchell BSc, MSc
A.M. Praciak BSc

For details of CAB INTERNATIONAL publications and services see back cover.

Orders and enquiries concerning current subscriptions and back numbers of this journal should be sent to the Marketing and Distribution Services at the above address.

Disclaimer

The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk.

CAB INTERNATIONAL does not accept responsibility for any trade advertisement included in this publication.

JAN-95

CAB INTERNATIONAL
Library Services Centre
12 APR 1995

Plant Breeding Abstracts

Volume 64

CAB INTERNATIONAL

Prepared by

CAB INTERNATIONAL
DIVISION OF CROP PROTECTION AND GENETICS

1994

ISSN 0032-0803

©CAB INTERNATIONAL, 1995

All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owner.

published by

CAB INTERNATIONAL
Wallingford
Oxon OX10 8DE UK

The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk.

printed by

Unwin Brothers Ltd, The Gresham Press, Old Woking, Surrey, UK
A Member of the Martins Printing Group

Plant Breeding Abstracts

Editor

Andrew M. Praciak BSc

STAFF

Head of Division

P.R. Scott MA, PhD

Head of Department of Plant Breeding and Genetics

S.L.A. Hobbs MA, DPhil

Head of Department of Crop Protection

G.A. Viney BSc, MSc

Scientific Information Officers

Plant Breeding

K.A. Binks BSc, MSc
B.F. Cooper MA, PhD
H.J. Dawson MSc, PhD
K.H. Lipp–Nissinen MSc, PhD
J.E. Loder BSc, MSc
D.G. Massey BSc
D.E. Mitchell BSc, MSc
A.M. Praciak BSc

Biotechnology

D.J. Hemming BSc, PhD
D.G. Massey BSc

Plant Pathology

J.A. Brunt BSc, MSc
L.M.F. Charles BSc
P.A. Farnell BSc
L.A. Martyniuk MA, MIL
L.A. McGillivray BSc, PhD

Nematology

E.D.L. Brooks BAgr, PhD
S.F. Siddiqi BSc

Entomology

E.D.L. Brooks BAgr, PhD
S.C. Brown BA
D.S. Buckley BSc, PhD
B. Burger BSc
L.M. Ridout BA, PhD
S.F. Siddiqi BSc
L.Thorn BSc

Weed Science

S. Harvey BSc
I.L. Tonnet BSc, PhD
A. Williams BSc

Other contributions from

V.E.T.M. Ashworth MA
Dr. X.Y. Duan
W. Feather BSc
R. Goodchild BSc
Dr. R.J. Lewington
Dr. M. Methuen
J.M. Powell BA
G.C. Sweet
Prof. Y.L. Wang
CAAS, Beijing, China

Clerical Officer

A.C. Sargeant

Keyboarders

C. Dyer

This journal is available at a special rate to subscribers in countries which make a financial contribution to CAB INTERNATIONAL. Orders and enquiries concerning subscriptions and back numbers should be sent to the Distribution Manager, Marketing and Distribution Services, CAB INTERNATIONAL, Wallingford, Oxon OX10 8DE, UK.

The Department of Plant Breeding & Genetics also prepares: *AgBiotech News and Information, Maize Abstracts, Plant Genetic Resources Abstracts* and *Wheat, Barley and Triticale Abstracts.*

COMMONLY USED ABBREVIATIONS AND ACRONYMS

AVRDC	Asian Vegetable Research and Development Center
BA	benzyladenine
bp	base pairs
CAAS	Chinese Academy of Agricultural Science
CaMV	cauliflower mosaic caulimovirus
CAT	chloramphenicol acetyl transferase
CIAT	Centro Internacional de Agricultura Tropical (Internacional Center for Tropical Agriculture)
CIMMYT	Centro Internacional de Mejoramiento de Maíz y Trigo (International Maize and Wheat Improvement Center)
CIP	Centro Internacional de la Papa (International Potato Center)
CMS	cytoplasmic male sterility
ctDNA	chloroplast DNA
DM	dry matter
EUCARPIA	European Association for Research on Plant Breeding
GA	gibberellic acid
GCA	general combining ability
GUS	beta-glucuronidase
HPLC	high performance liquid chromatography
IBPGR	International Board for Plant Genetic Resources (now IPGRI)
ICARDA	International Center for Agricultural Research in the Dry Areas
ICRISAT	International Crops Research Institute for the Semi-Arid Tropics
IITA	International Institute of Tropical Agriculture
IPGRI	International Plant Genetic Resources Institute
IRRI	International Rice Research Institute
kb	kilobases
mRNA	messenger RNA
MS medium	Murashige & Skoog medium
mtDNA	mitochondrial DNA
MW	molecular weight
NOS	nopaline synthase
NPT	neomycin phosphotransferase
ORF	open reading frame
PAGE	polyacrylamide gel electrophoresis
PCR	polymerase chain reaction
PEG	polyethylene glycol
PMC	pollen mother cell
RAPD	random amplified polymorphic DNA
rDNA	ribosomal DNA
RFLP	restriction fragment length polymorphism
Ri	root-inducing
rRNA	ribosomal RNA
SCA	specific combining ability
SDS	sodium dodecyl sulfate
Ti	tumour-inducing
TLC	thin layer chromatography
tRNA	transfer RNA
USDA-ARS	US Department of Agriculture, Agricultural Research Service
VIR	Vavilov Institute of Plant Industry

LANGUAGE SYMBOLS

Capital initial letters indicate the language of the text, small letters the language(s) of the summary. The following abbreviations are used:

Af	Afrikaans
Al	Albanian
Ar	Arabic
Az	Azerbaijani
Be	Belarussian
Bg	Bulgarian
Ch	Chinese
Cs	Czech
Da	Danish
De	German
Ee	Estonian
En	English
Eo	Esperanto
Es	Spanish
Fi	Finnish
Fr	French
Gr	Greek
He	Hebrew
Hi	Hindi
Hu	Hungarian
Ia	Interlingua
In	Indonesian
Is	Icelandic
It	Italian
Ja	Japanese
Ko	Korean
La	Latin
Li	Lithuanian
Lv	Latvian
Ma	Macedonian
My	Bahasa Malaysia/ Malay
Nl	Dutch, Flemish
No	Norwegian
Pe	Persian
Pl	Polish
Pt	Portuguese
Ro	Romanian
Ru	Russian
Sh	Serbo Croat
Sk	Slovak
Sn	Slovenian
Sv	Swedish
Ta	Tajik
Th	Thai
Tr	Turkish
Uk	Ukrainian

READERS' GUIDE TO ABSTRACTS

An abstract contains various numbers and combinations of fields (items of information) depending on the document type. The sample abstract given below contains 9 fields which appear in the order indicated in the following list:

1 Abstract number
2 Authors
3 Title in English
4 Original title if in Roman script
5 Journal or other document
6 Year, volume, part and pagination
7 Language of text, language of summaries, bibliographic details
8 Organization where work was carried out
9 Abstract

10143 BARTOŠ, P.; STUCHLÍKOVÁ, E.; HANUŠOVÁ, R.; MALÝ, J. [**Sources of resistance to rusts in foreign varieties of winter wheat tested by the State Institute for Agricultural Supervision and Testing.**] Zdroje rezistence ke rzím ze zahranicních odrud pšenice ozimé zkoušených SKZÚZ. *Genetika a Šlechtení* (1994) **30** (1) 19-27 [Cs, en, 8 ref.] Výzkumný Ústav Rostlinné Výroby, 16106 Prague 6 - Ruzyne, Czech Republic.

Foreign varieties tested in state trials during 1990-93 were analysed for resistance to *Puccinia graminis* and *P. recondita* in the greenhouse and to *P. striiformis* in the field. Inoculation was with 5 and 6 races of the respective pathogens in the greenhouse and 2 races of the pathogen in the field. Varieties resistant to at least one race of stem or leaf rust are listed. On the basis of their reactions to the rusts, the varieties were classified in 10 groups. Most varieties reacted similarly to those carrying resistance genes on chromosomes involved in the 1BL/1RS translocation (*Sr31, Lr26, Yr9*), either alone or in combination with other genes, such as *Lr3*. Some varieties had reactions characteristic of the gene *Sr5*. More than half of the listed varieties were resistant to all stem rust races, but only 2 varieties (Dukat and Iva) were resistant to all leaf rust races used. Most varieties had field resistance to yellow rust.

For non-serial publications such as books, transliterated titles are given for languages in Cyrillic or Greek scripts.

Editorial additions within abstracts appear in square brackets e.g. for preferred Latin names of organisms.

Where an item is not abstracted from the original document but from a secondary source, this is indicated after the authors' affiliation.

The author and subject indexes for the twelve monthly parts are cumulated to provide annual indexes. Terms used in the indexes are taken from the CAB Thesaurus, 1990 edition.

Plant Breeding Abstracts

Contents

Volume 64

Breeding (General and theoretical)	1	157	309	473	623	783	907	1045	1213	1381	1537	1707
Genetic Resources..................	2	157	309	473	623	783	907	1045	1213	1381	1538	1708
Methods and Mechanization	–	–	311	474	625	783	–	-	1214	–	1539	1709
Breeders' rights and legislation .	3	159	312	–	625	783	908	1045	1215	1381	1539	1710
Genotype environment interaction...........................	4	160	312	474	625	784	908	1045	1215	–	1540	1712
Resistance breeding	4	160	313	474	625	785	908	1045	1215	1381	1540	1713
Genetics (General and theoretical)........................	5	161	314	475	626	787	910	1047	1216	1383	1542	1713
Molecular genetics	5	161	314	475	626	787	910	1047	1216	1383	1542	1713
Arabidopsis genome	8	165	318	477	629	789	911	1049	1219	1386	1545	1716
Quantitative and population genetics..............................	12	168	320	482	632	792	913	1057	1222	1392	1550	1720
Hybridization and mutation........	13	170	322	483	636	793	914	-	1225	–	1551	1722
Cytology and Cytogenetics ...	14	171	322	483	636	794	915	1058	1225	1392	1551	1722
Reproductive Behaviour........	16	171	322	484	637	794	915	1058	1226	1393	1551	1722
***In Vitro* Culture**	16	174	323	485	638	795	917	-	1226	1393	1552	1724
Evolution and Biosystematics	17	174	324	486	638	796	917	1059	1226	1394	1552	1724
Crops (General)......................	18	175	327	487	639	797	918	1060	1227	1394	1555	1725
Cereals	21	177	328	487	639	799	919	1060	1228	1395	1556	1726
Wheat (including *Aegilops*)	22	179	331	489	642	800	921	1064	1228	1396	1558	1728
Barley..	35	189	349	501	653	807	932	1081	1239	1408	1568	1742
Oats	38	193	357	504	657	811	937	1086	1242	1414	1572	1749
Rye...	38	194	358	506	658	812	938	1087	1243	1415	1573	1751
Triticale.....................................	39	195	360	507	658	813	939	1087	1244	1415	1575	1752
Maize (including *Tripsacum*)	40	195	361	507	660	813	939	1088	1246	1416	1575	1752
Sorghum.....................................	47	206	366	518	667	821	944	1102	1268	1427	1589	1759
Millets	48	208	368	519	669	822	950	1103	1269	1429	1591	1760
Rice	50	210	368	520	669	823	951	1104	1271	1431	1593	1761
Minor cereals and pseudocereals.....................	59	223	375	529	672	828	957	1113	–	1437	1601	1770
Fodder Crops.........................	59	224	375	530	673	829	958	1113	1277	1438	1602	1770
Grasses......................................	59	224	376	530	673	829	958	1113	1277	1438	1602	1770
Lucerne	62	227	380	535	676	831	961	1118	1282	1442	1606	1775
Clovers	63	229	382	538	677	833	962	1119	1284	1444	1609	1776
Other fodder legumes	63	229	383	538	678	834	963	1121	1286	1445	1611	1776

Grain Legumes	65	232	384	540	680	835	964	1123	1288	1446	1612	1777
Soyabeans	66	233	384	540	681	837	965	1124	1288	1446	1613	1777
Faba beans	70	235	388	543	683	842	968	1128	1296	1452	1618	1783
Phaseolus	71	236	389	543	685	843	968	1129	1297	1453	1618	1784
Peas	72	237	392	544	689	845	969	1131	1299	1455	1620	1786
Lentils	74	239	394	545	691	849	971	1134	1301	1457	1622	1789
Chickpeas	75	239	394	545	692	849	972	1134	1301	1457	1623	1789
Pigeon peas	76	241	395	546	692	850	973	1135	–	1459	1624	1789
Vigna	77	241	396	546	693	850	973	1136	1303	1459	1624	1790
Other grain legumes	78	243	396	548	694	852	975	-	1305	1461	–	1791
Root Crops	79	243	396	548	694	852	976	1138	1305	1461	1626	1791
Potatoes	79	243	396	548	694	852	976	1138	1305	1461	1626	1791
Carrots	81	246	407	551	699	–	978	1145	1310	1468	1633	1794
Swedes and turnips	81	–	407	–	699	–	–	1146	–	1469	–	–
Cassava	–	247	408	552	699	854	978	1146	1310	1469	1634	1795
Sweet potatoes	82	247	408	552	700	–	979	1146	1310	1470	1634	1795
Yams	82	–	409	552	–	–	979	1146	1311	–	1634	1796
Colocasia	–	–	–	552	–	–	979	-	1312	–	–	1796
Other root crops	82	247	409	552	701	854	979	1147	1312	1471	1635	1796
Leafy Vegetables, Bulbous Vegetables, Stem Vegetables	83	248	410	553	702	854	980	1147	1312	1471	1635	1797
Allium	83	248	410	553	702	855	980	1147	1312	1471	1635	1797
Brassica	84	248	410	553	702	855	981	1148	1315	1472	1636	1798
Spinach	85	249	411	554	703	856	981	1149	1315	1473	1637	1799
Celery	85	–	–	555	–	856	–	-	1316	1474	1637	–
Lettuces	85	–	412	555	704	–	982	1149	1317	1474	–	1799
Other leafy, bulbous and stem vegetables	86	249	–	556	704	856	982	1150	1317	1474	1637	1800
Fruit Vegetables	87	250	412	556	705	857	982	1151	1317	1475	1638	1801
Tomatoes	87	250	412	556	705	857	982	1151	1318	1475	1638	1801
Aubergines	90	253	416	560	709	860	–	-	1321	1479	1641	1806
Capsicum	92	253	417	561	709	860	987	1156	1321	1480	1641	1806
Cucurbitaceae	94	254	417	563	710	860	987	1157	1321	1480	1641	1807
Other fruit vegetables	95	255	420	–	712	861	988	1159	–	1482	1646	1809
Temperate Fruits	95	258	420	565	712	861	988	1159	1322	1483	1647	1809
Pome Fruits	96	258	421	566	712	861	988	1159	1322	1483	1647	1809
Stone Fruits	97	259	423	567	714	862	990	1161	1324	1486	1648	1810
Small Fruits	100	259	424	569	716	863	992	1163	1325	1488	1652	1812
Grapes	101	260	426	570	719	863	993	1164	1326	1490	1653	1813
Other temperate fruits	102	260	427	571	721	863	994	1165	1327	1492	1654	1814
Tropical and Subtropical Fruits	102	261	427	572	722	864	994	1166	1328	1493	1655	1815
Bananas	102	261	427	572	722	864	994	1166	1328	1493	1655	1815
Citrus fruits	103	261	428	573	722	864	995	1167	1329	1493	1655	1815

Other tropical and subtropical fruits	105	262	428	574	723	865	995	1167	1330	1494	1656	1816
Nut Crops	106	262	429	576	725	866	996	1168	1331	1496	1657	1818
Fatty Oil Plants	106	263	429	576	726	866	996	1169	1333	1497	1657	1818
Rape (including other oilseed brassicas and *Sinapis*)	106	263	430	576	726	866	996	1170	1333	1497	1657	1819
Linseed	–	267	434	580	731	869	–	1174	1336	1499	1661	1821
Sunflowers	110	268	434	581	731	869	999	1174	1337	1500	1661	1822
Safflower	111	268	434	582	732	870	–	1174	–	1501	1662	–
Oil palms	111	269	435	582	–	870	–	1175	1337	–	1662	1822
Coconuts	111	269	435	582	732	870	–	-	–	1501	1663	1823
Olives	–	269	436	582	732	875	1001	-	1338	1502	1663	1823
Groundnuts	112	270	436	583	733	875	1001	1175	1338	1502	1663	1824
Castor beans	–	271	–	585	–	877	1003	-	1339	1503	1666	–
Sesame	113	272	438	586	734	877	–	-	1339	1503	1666	1825
Other fatty oil plants	113	272	438	586	734	878	1003	1175	1339	1504	1667	1826
Sugar Crops	114	272	438	586	734	878	1004	1176	1339	1504	1667	1826
Sugarcane	114	272	438	586	734	878	1004	1176	1339	1504	1667	1826
Sugarbeet	116	275	440	587	736	881	1004	1178	1340	1504	1668	1827
Other sugar crops	117	278	–	–	737	-	1005	-	–	1506	–	1829
Stimulant Plants	117	278	441	587	737	882	1005	1179	1341	1507	1669	1829
Tea	–	278	441	587	737	882	1005	1179	1341	–	1669	1829
Coffee	117	278	441	588	738	882	1005	1179	1342	1507	1669	1829
Cocoa	117	278	441	588	–	882	–	1179	1342	1507	1669	1829
Tobacco	117	279	441	589	738	883	1006	1180	1342	1507	1670	1830
Other stimulant plants	–	–	–	–	–	–	–	-	–	–	–	–
Fibre Plants	123	283	446	593	744	889	1009	1185	1345	1512	1675	1836
Cotton	123	283	446	593	744	889	1009	1185	1345	1512	1675	1836
Flax	125	286	449	–	–	891	1011	–	1349	1515	1676	1837
Jute	125	286	449	596	–	891	–	–	–	1516	1677	1830
Sisal	–	–	–	–	747	–	–	–	–	–	–	1837
Other fibre plants	126	286	449	596	747	891	1011	1187	1349	1516	1677	1838
Rubber Plants	126	286	–	596	747	891	1012	–	1349	1516	1677	–
Forest Trees	127	287	449	596	747	891	1012	1187	1350	1516	1678	1838
Broadleaves	127	287	449	597	748	892	1013	1188	1350	1516	1678	1839
Conifers	129	289	451	598	755	894	1016	1193	1355	1520	1682	1843
Ornamental Plants	130	292	453	602	760	896	1020	1198	1359	1522	1685	1849
Ornamental woody plants	130	292	454	602	760	896	1020	1198	1360	1523	1685	1850
Lawns and turf	–	–	456	605	761	–	–	–	1362	1524	–	1852
Herbaceous plants	131	295	456	605	762	897	1022	1199	1363	1525	1686	1852
Ornamental bulbs	134	298	460	610	765	899	1024	1204	1366	1528	1690	1855
Orchidaceae	135	300	461	611	765	900	1024	1205	1366	1529	1691	1856
Foliage and succulent plants	136	300	461	612	765	900	1025	1207	1368	1530	1691	1857
Ornamental aquatic plants	136	–	461	613	–	–	1026	–	1368	–	–	–

Other ornamental plants	–	–	–	–	–	–	–	–	–	–	–	–
Miscellaneous Crops	136	300	461	613	765	901	1026	1208	1369	1530	1692	1857
Medicinal plants	136	301	461	613	765	901	1026	1208	1369	1530	1692	1857
Pesticidal plants	138	–	462	615	–	–	–	1209	1370	–	–	1858
Spice plants	139	302	462	615	767	902	1027	–	1371	1531	1694	1858
Culinary herbs	139	302	463	615	767	902	1027	1209	1372	1531	1694	–
Essential oil plants	139	303	463	–	767	902	1028	1209	1372	1532	1694	1859
Industrial crops	139	303	–	–	–	–	–	1210	–	1532	–	1859
Hops	–	303	–	615	768	902	–	–	1373	1532	1694	–
Bamboos	139	–	–	–	768	902	1028	–	1373	1532	1695	–
Other miscellaneous crops	–	–	–	615	768	903	1028	–	–	1533	–	–
Edible Fungi	140	303	463	616	768	903	1029	1210	–	1533	1695	1859
Pteridophyta, Bryophyta, Agae,Lichens	–	–	–	–	769	–	1029	–	–	–	1695	–
Reports	140	304	464	619	769	903	1029	1210	–	1534	1695	–
Conferences	141	305	464	619	769	903	1029	1211	1373	1534	1695	1861
Books	142	306	465	620	771	904	1030	1212	1373	1534	1696	1861

AUTHOR INDEX 1863

SUBJECT INDEX 1941

List of source journals i

Review Articles Volume 64

Pepper breeding (*Capsicum* spp.): achievements, challenges and possibilities
By J.M. Poulos 143
Breeding for tropical adaptation in heading Chinese cabbage - achievements and continuing challenges
By R.T. Opeña and C.G. Kuo 467
Pigeonpea breeding - accomplishments and challenges
By R.P. Ariyanayagam and N.B. Singh 773
Breeding for sowing seed quality
By P.A. Salisbury and R.G. Flood 1033
Influence of A_1 cytoplasm in pearl millet
By O.P. Yadav 1375
Genetic upgrading of *Solanum viarum* Dunal. for steroid production.
By S. Sahoo 1699

AUTHOR INDEX

Aadlers, L. E. 3145
Aalen, R. B. 6829, 12600
Aalen, R. D. 910
Aamlid, T. S. 6064
Aarons, S. 13016
Aarts, J. 682
Aarts, M. G. M. 7636
Aartse, J. W. 75
Aastveit, A. H. 454, 2303
Aastveit, K. 454, 2303
Abad, A. 7035
Abadía, A. 7854
Abadía, J. 7854
Abak, K. 5208
Abbal, P. 7293
Abbas, G. M. 8311
Abbate, V. 5487
Abbe, P. 4479
Abbo, S. 561, 3695, 3971, 4754, 6198, 7123, 11282
Abbott, A. 4140
Abbott, A. G. 7499
Abbott, R. J. 13280
Abd-el-Maksoud, M. M. 222
Abd-El-Moneim, A. M. 8124, 10439
Abd-El-Salam, A. M. 10624, 10627
Abd. Karim, A. G. 13358
Abd Latib Senin 9792
Abd-Mishani, C. 5499
Abdalla, O. 2552
Abdalla, O. S. 3702
Abdel-Aal, S. A. 10624, 10627
Abdel-Gadir, A. Y. 6557-6558, 8654
Abdel-Nabey, A. A. 7417
Abdelnour, A. 9617
Abdin, M. Z. 5869
Abdraimov, S. A. 12779
Abdukarimov, D. T. 11831
Abdul Aziz 4811, 4830
Abdul-Baki, A. A. 9461
Abdul Halim Hassan 13399
Abdul Majeed 6155, 12885
Abdul Majid 12742
Abdul Rauf 4726
Abe, H. 10915, 11095
Abe, J. 10908-10909
Abe, K. 313, 739, 6023, 8396, 9582, 12724
Abe, M. 313
Abe, T. 9226, 9512
Abebe Tullu 6205
Abedon, B. G. 9150
Abel, L. 7582
Abel, S. 5045, 6672
Abel, S. D. 927
Abel, W. O. 823, 4564
Abhayavardhani, P. 9914
Abhijeet Nag 574
Abidi, A. A. 1273-1274
Ablett, G. R. 1694, 1696, 8143, 9349
Abney, T. S. 8161
Abo-Moch, F. 11511
Abou Bakr, M. A. 11860
Abou-el-Nasr, N. 5335
Abou-Hadid, A. F. 10637
Abou-Youssef, A. Y. 9087
Aboubacar, A. 10309
Abracheva, P. 5291
Abraham, C. T. 7596, 9691
Abraham, C. V. 4872, 10315
Abraham, J. 9926
Abraham, K. 5200
Abraham, S. 1814
Abraham, S. T. 12179
Abraham, V. 5359, 10853
Abrahams, B. R. 1859, 4108, 8371, 13037
Abramov, V. I. 10015
Abrams, M. D. 5519
Abrams, S. R. 821, 8641, 12808
Abramson, D. 2539
Abrasheva, P. 5291
Abreu, A. F. B. 5028, 7099, 12872
Abrol, D. P. 13081
Abrol, Y. P. 2497, 3453, 5869
Abromeit, M. 5888
Abruzzese, A. 8652
AbuBakar, U. 675
Abulfatih, H. A. 8657
Abzalov, M. F. 3323
Accatino, P. 5110
Accerbi, M. 3636
Acebes Ginovés, J. R. 5615
Acedo, E. F. 11597
Acevedo, A. 4831
Acevedo, E. 32, 8890
Acevedo, F. 7697
Acevedo, T. 10892
Achal Shah 6187
Acharya, L. 10693
Achbani, E. H. 13145
Açıkgöz, N. 4879, 6208, 9420
Ackermann, F. 2516
Ackerveken, G. F. J. M. van den 6276
Ackzell, L. 9811
Acosta C., S. 6574
Adachi, K. 8031
Adachi, T. 11236
Adair, M. J. 11484
Adalla, C. B. 4010-4011
Adam, A. F. 6167
Adam, E. 5858, 13205
Adam, S. 7440
Adam-Blondon, A. F. 12883
Adams, C. 9527
Adams, G. 5594, 11982
Adams, J. E. 9946
Adams, K. R. 11492
Adams, P. B. 7527
Adams, R. P. 8657, 8865, 9827, 9946, 13398
Adams, W. T. 4380, 5606, 8651, 11032
Adams, W. W., III 9951
Adamski, T. 12433
Adamson, H. Y. 2837
Adang, M. J. 5400
Adarsh Bala 1749, 1752, 7130
Adarsh Kumar 5677
Adeladun, M. O. A. 9391
Adelberg, J. W. 4106, 11914
Adell, J. C. 11250
Aderkas, P. von 2148, 5603, 8650
Adewusi, S. R. A. 7179
Adhikari, S. R. 9779
Adhikari, T. B. 3066, 8041, 8044-8046, 12765
Adipala, E. 7960, 12682
Adisarwanto, T. W. 5107
Adkins, A. L. 1751, 6983
Adkins, S. 566
Adkins, S. W. 1751, 3260, 6983, 9699
Adlard, M. X. 9795
Adler, L. S. 3202
Adonin, V. I. 2225
Adrianov, V. N. 5637
Adugna Wakjira 857
Aegerter, M. 1154
Aekatasanawan, C. 11470
Aelbers, H. 632
Aerts, F. 2986
Afanador, L. 11748-11749
Afanaskīna, Ī. P. 10446
Afsar, K. 12410
Afshari, M. 5328
Afza, R. 6318, 12009
Afzal, M. 7406
Afzal, N. 6183
Agadi, S. N. 11773
Agadzhanyan, A. M. 10043
Agaev, F. N. 5177
Agafonov, A. V. 10405-10406
Agafonova, O. V. 10405-10406
Agard, D. A. 11449
Agarwal, A. 12165
Agarwal, H. C. 9162-9163
Agarwal, M. L. 12165
Agarwal, P. K. 4176, 4217
Agarwal, S. C. 10546
Agata, W. 8023
Agbobli, C. A. 3023
Agee, C. S. 6068
Ager, A. A. 9803
Aggarwal, R. 248, 7814
Agina, S. M. 2871
Agnihotri, A. 1144
Agrawal, A. P. 1588, 4229
Agrawal, B. D. 11452, 11465
Agrawal, B. L. 4872
Agrawal, H. O. 8280, 9477, 10605
Agrawal, R. C. 3039, 8301
Agrawal, S. K. 8124
Agrawal, V. P. 9817
Ågren, J. 998
Aguaded, S. 4746
Aguilar, A. M. 1552, 12755
Aguilar, M. 443, 9399
Aguilar, M. E. 13093
Aguillard, W. 9758
Aguirre, J. 2966
Aguirre, P. J. 1828
Aguirre-Rodríguez, J. 6929, 6945
Agyeman, F. 7633
Ahanger, H. U. 3987
Ahée, J. 7452
Aher, R. P. 2927
Ahl-Goy, P. 936, 3289, 7403
Ahloowalia, B. S. 2177, 11822
Ahmad, A. 4726, 13387
Ahmad, F. 7082, 12578
Ahmad, H. 5911
Ahmad, K. J. 9852
Ahmad, M. 1620, 3507
Ahmad, M. H. 7182
Ahmad, N. 1594
Ahmad, R. 2015, 12051
Ahmad, S. 2693, 4771
Ahmad, S. D. 6097-6099
Ahmad, S. T. 6946
Ahmad, Z. 1926, 13137
Ahmadi, H. 1906
Ahmed, F. 10542
Ahmed, F. E. 8220
Ahmed, H. 3970
Ahmed, I. 3586
Ahmed, K. 1756, 3763, 4837
Ahmed, K. Z. 2533
Ahmed, M. 1617
Ahmed, M. I. 1532
Ahmed, N. 4079, 6994
Ahmed, T. 7991
Ahmed, Y. M. 11860
Ahmed, Z. 3586
Ahn, B. O. 4908
Ahn, S. 3571-3572
Ahn, S. N. 8032
Ahn, S. W. 7003
Ahokas, H. 3887, 7704
Ahrent, D. K. 9339
Ahring, R. M. 9264
Ahsanullah, Q. 9235
Ahuja, K. L. 7363
Ahuja, M. R. 2264, 5702, 12211
Ahuja, P. S. 1047, 3426, 11103
Aicha, B. B. 13020
Aichholz, R. 7403
Aida, Y. 10177
Aiken, S. G. 1632, 3882, 10402, 11635
Ainley, W. M. 3725
Ainsworth, C. 185
Aitken, E. A. B. 3410-3411, 4368
Aitken, S. A. 12383
Ajala, S. O. 1469, 9165-9166
Ajmone-Marsan, P. 2344
Ajquejay, S. 2901
Akada, S. 917
Akagi, H. 3826
Akao, S. 523, 11729
Akashi, R. 11236
Akbar, M. 1558, 10369
Akbayın, H. 851
Akella, V. 581
Akem, C. N. 2871, 3247
Aken'Ova, M. E. 8026
Akerboom, M. 4426
Akgün, I. 11636
Akhilesh Singh 8270
Akhmedova, M. M. 10966
Akhmetov, R. R. 6776
Akihama, T. 9336, 12004
Akınerdem, F. 5434
Akita, S. 9213
Akiyama, F. 3816
Akiyama, M. 4381
Akiyama, S. 1007
Akomeah, P. A. 7141
Akopyan, G. A. 10779
Akpan, E. E. J. 12070
Akram, M. 13137
Aksenovich, T. I. 4598
Akueshi, C. O. 2871
Akulinichev, V. F. 238, 11352
Al-Adil, K. M. 10303
Al-Ahmad, M. A. 4244
Al-Ani, K. 2980
Al-Bermani, A. K. K. A. 2800
Al'-Fakhli, I. Yu. 5178
Al-Hakimi, A. 7790
Al-Janabi, S. M. 2005, 3746, 13178
Al-Jassany, R. F. 10303
Al-Mallah, M. K. 5436
Al-Masoom, A. A. 2260
Al-Musa, A. 5205
Al-Omary, S. S. 10183
Al-Rubeaa, A. J. 4187
Al-Shehbaz, I. A. 6679
Al-Tahir, O. A. 1264
Alagarswamy, G. 6003
Alam, A. K. M. R. 947
Alam, M. 9394
Alam, M. M. 5563
Alam, S. 10983
Alami-Saied, K. 5387
Alamillo, J. M. 12594, 12621
Alang, Z. C. 13399
Alanine, H. 12233
Alanko, P. 6533
Alarmelu, S. 1973
Albà, M. M. 7919
Albani, D. 1943, 3589
Albarran, M. 12517
Albaum, M. 4564
Alber, D. 6876
Alberghina, O. 7315
Alberici, R. 2422
Alberico, G. J. 11496
Albersheim, P. 11747
Albert, V. A. 2398, 2405, 11256
Albertini, A. 5250
Alberts, J. F. 10680
Albertsen, M. C. 7913, 7934, 9074
Albini, S. M. 11213
Alborn, H. 4873
Albouy, J. 8568
Albrecht, H. 2904
Albrecht, J. 9766
Albrecht, K. A. 5978-5979
Albrechtsen, R. S. 10160-10162
Albuquerque, T. T. 7180
Alcalá, A. 2932
Alcantara, P. B. 9191

Alcantara, T. P. 8360
Alcantara, V. B. G. 9191
Alcázar, M. D. 8361
Alché, J. D. 13156
Aldén, B. 4536
Alderson, P. G. 4393, 7525
Aldrich, J. 12165-12166
Aldrich, T. S. 4053
Aldwinckle, H. S. 5233, 8389, 9572, 11949, 13050
Aleksandrova, M. S. 4538
Aleksanyan, S. M. 2284
Aleksić, Ž. 707
Alemán, L. 7962
Aleman, M. E. 8882
Alemanno, L. 10376
Aleshin, E. P. 389
Aleshin, N. E. 389
Alessandroni, A. 11401
Aletà, N. 8459, 8754, 9637, 9644
Aletor, V. A. 10439
Alexaki, A. 5397
Alexander, D. 936, 2075, 2266, 3289, 5464, 5742, 6026
Alexander, M. P. 800, 4169
Alexander, R. 12594
Alexanian, S. M. 2284
Alfaro, D. 10302
Alfaro, R. I. 7490
Alfenito, M. R. 3739
Alfermann, A. W. 121
Algan, N. 1432, 9359
Ali, A. 4771
Ali, A. M. 5994
Ali, B. 5389
Ali, H. 4335-4336
Ali, I. 4853, 8936
Ali, M. 8208
Ali, M. S. 218
Ali, N. 7521
Ali, S. 1968, 7991, 13097
Ali, S. A. 11107
Ali, S. M. 7070, 8200
Ali, S. N. A. 12079
Ali, S. S. 411, 439, 1966-1968, 6048, 6974
Ali Khan 2693
Ali-Khan, S. T. 544, 1740
Alibert, G. 4710, 5349, 7744, 7771, 13144
Alicchio, R. 5091
Aliev, È. 8875
Aliev, R. T. 2428
Aliga, W. 5132
Alippi, H. E. 6780
Allagikar-Nadiger, S. B. 7922-7923
Allam, A. Kh. Yu. Yu. 1369
Allan, D. L. 9303
Allan, M. 4503
Allan, R. E. 3654, 12510, 13421
Allan, R. M. 3018
Allard, G. 10407
Allard, R. W. 1244, 7866, 12636
Allard, S. 4210, 5354
Alleman, M. 2674
Allen, F. L. 10458
Allen, G. A. 11071
Allen, G. C. 13210
Allen, J. A. 5520
Allen, J. F. 3488
Allen, J. G. 3930
Allen, J. O. 4814
Allen, K. K. 2117
Allen, L. H., Jr. 12371
Allen, M. L. 184, 11309
Allen, O. B. 5266, 9349
Allen, R. D. 6192, 8572
Allen, R. L. 5834
Allen, S. M. 1154
Alleweldt, G. 777, 4547
Alliprandini, L. F. 7076
Allison, J. C. S. 2007, 12109
Allison, L. A. 12813
Allison, R. F. 6501
Allona, I. 12216
Allot, M. 10626
Almaguer V., G. 5243
Almaraz, L. B. 12631
Almeda, F. 7462
Almehdi, A. A. 9657
Almeida, É. C. de 7192
Almeida, E. R. P. de 959
Almeida, E. X. de 6734
Almeida, F. C. G. 11510
Almeida, I. M. G. 2941
Almeida, J. 6864
Almeida, J. de 5788
Almeida, J. H. S. 715
Almeida, L. A. de 7076
Almeida, M. H. 5533
Almeida Engler, J. de 3513, 4313
Almoguera, C. 4237, 12057
Alonso-Blanco, C. 4796, 8980
Aloy-Lleonart, M. 10184
Alpert, P. 5279
Alpinar, K. 9905
Alred, R. 8557
Alsadon, A. A. 4045
Alspach, P. A. 9608
Alston, A. M. 7850
Alston, F. H. 4125, 9568
Alsurai, A. 6722
Altaf Ahmad 4726
Altan, A. D. 742
Altenburg, A. 10609
Altieri, M. A. 2277
Altinbaş, M. 1432, 5877
Altman, A. 681, 12969
Altman, D. W. 3330
Altmann, T. 2353, 12413
Altosaar, I. 1943
Altschmied, L. 7650
Altschuler, M. 935, 9724
Altukhov, Yu. P. 3532
Altunji, H. 7776
Altvorst, A. C. van 13359
Alvarez, A. 11512, 13248
Alvarez, A. M. 8041
Alvarez, D. 8495
Alvarez, E. 8980
Alvarez, J. B. 3597, 8869
Alvarez, R. 4272-4273
Alvarez Cajas, V. M. 7280
Alvarez-Morales, A. 3290
Alvarez Plua, H. 5124
Alvarez S., A. 5125
Alverson, W. S. 8625
Alves, A. 6864
Alves, J. F. 11510
Alyoshin, E. P. 389
Alyoshin, N. E. 389
Alzate D., H. 1720
Amagai, H. 714
Amaki, W. 5658
Amano, E. 1228, 4893
Amano, Y. 6259, 12526, 12560, 13382
Amante-Bordeos, A. D. 6033
Amarjeet Kaur 10528
Amarnath, S. 8556
Amaro, T. 12605
Amasino, R. M. 2324, 5780
Amaya, A. 12517
Ambard-Bretteville, F. 606
Amblard, P. 852, 13146
Ambrogio, E. de 2494, 13190
Ambroise, A. 7161
Ambros, P. F. 13214
Ambrosano E. J. 2941
Ambrose, M. 13408
Ambrose, M. J. 6168, 6191, 8200
Ambrosini, M. 12058
Ambrozaitienė, R. 3190
Amegninou, D. 5986
Amelin, A. V. 2911, 11756
Amer, H. M. 6722
Amer, I. M. 12859
Ames, N. 8091, 10409
Amezquita, M. C. 11739
Amici, A. 7613
Amin, K. S. 3978, 10546
Amin, M. N. 5332
Amiot, M. J. 8286
Amir Singh 7172
Amit Mukhopadhyaya 6768
Amita Pal 39
Amoatey, H. M. 4391
Amoli, N. 5021
Amore, T. D. 13376
Amorim, L. 8520, 8522
Amorim Neto, S. 1520
Amos, C. I. 8841
Amrani, N. 7744
Amrhein, N. 4054-4055, 7212, 10659
Amri, A. 6803-6807
Amselem, J. 1156
Amuthan, G. 5736
An, C. L. 12484
An, G. 44, 2330, 4576, 12270
An, G. H. 3279, 7386, 10372
An, H. Y. 7032, 9258
An, J. 5049
An, L. J. 1690
An, Y. K. 12235
An, Z. P. 12326
Anai, T. 403
Anamika Tiwari 5041
Anamthawat-Jónsson, K. 5843
Anand, N. 5197, 10669
Anand, S. C. 9327
Anand, S. K. 9468
Anandam, R. J. 5202
Anandan, S. 8185
Anandarajah, K. 1658
Anan'ev, E. V. 2583
Anan'ev, G. M. 7413
Ananiev, E. 6822
Anaso, H. U. 1037
Anbupalam, T. 12429
Ancherani, M. 3111
Anderberg, R. J. 12520
Andersen, B. 2430
Andersen, B. R. 4554
Andersen, L. 6848
Andersen, S. B. 9788, 13185
Anderson, A. K. 9590
Anderson, B. 10299
Anderson, C. B. 7056
Anderson, C. P. 8812
Anderson, D. M. 942
Anderson, G. J. 3568
Anderson, J. A. 3572, 7762, 8083, 12519
Anderson, J. B. 1066, 13406
Anderson, J. L. 12825
Anderson, J. M. 3213, 4898, 10945
Anderson, J. V. 8309, 11868-11869
Anderson, L. K. 3541
Anderson, M. 3282
Anderson, M. A. 3547, 4301, 5802, 13002
Anderson, M. D. 5984, 9682, 10290
Anderson, M. K. 2277
Anderson, M. L. 2360
Anderson, M. W. 2780
Anderson, N. A. 2989
Anderson, N. O. 11246, 13357
Anderson, O. D. 265, 1402, 7735, 12548
Anderson, P. 5603
Anderson, P. A. 3051
Anderson, P. C. 4819
Anderson, R. 11877, 12055, 13351
Anderson, R. J. 9159
Anderson, R. M. 10312
Anderson, T. R. 8162
Anderson, W. F. 5400
Anderson, W. K. 12559
Andersson, B. 11678, 13308
Andersson, H. C. 3540
Andersson, S. 7018
Ando, A. 6158, 6976, 7311
Ando, H. 9226
Andolfi, A. 699
Andow, D. A. 7970, 11514
Andrade, E. R. de 12002
Andrade, F. H. 5870, 10070
Andrade, M. de 8823
Andrade, W. E. B. 1520
Andrade Landell, M. G. de 4272-4273
Andrade S., N. 1252
Andrásfalvy, A. 662
André, C. P. 392, 1526
Andreasen, V. 8786
Andreev, L. N. 2633, 4542, 4779
Andreo, C. S. 8699
Andréoli, C. 7497
Andreoli, C. 1082
Andrés, M. F. 4746
Andrew, M. H. 1473
Andrews, D. J. 6957, 11280
Andrews, D. L. 9174, 10288
Andrews, S. 9838
Andrews, T. J. 931
Andrieu, J. 5976
Andriuškevičienė, I. 3358
Andrushchenko, V. N. 3268
Andrzejczuk-Hybel, J. 4798
Andrzejewski, R. P. 701
Aneja, D. R. 9118
Anekonda, T. S. 9828, 10254, 13325
Anema, P. K. 2646
Ang, L. H. 10020
Angadi, V. V. 10368
Angel, F. 3020
Angeles, E. R. 8016
Angeli, I. 2027
Angelini, P. 3767
Angelis, G. de 1025
Angelis, P. de 5698
Angelov, G. B. 10418
Angelov, K. 4832
Angenent, G. C. 3415, 5749
Anglani, C. 9685
Anikster, Y. 8769
Anil Kumar 9118
Anil Sehrawat 4194
Anil Sirohi 7113
Anilkumar, T. B. 3978, 6226, 8215, 10546, 12921
Anisimova, I. N. 7342
Anisimova, N. V. 7061
Aniszewski, T. 4958
Anitha, N. 5310
Anjani, K. 6426
Anjani Kumar 5564
Anju Handa 8375
Annicchiarico, P. 5876, 6087, 6089, 7768, 9302
Annie, P. T. 1580
Annison, G. 11287
Anpilogova, L. K. 8924
Ansari, A. A. 7430
Anthony, F. 903
Anthony, R. G. 1160
Antonetti, P. 9789
Antonetti, P. L. E. 4350
Antonio, B. A. 8006, 10353, 11558
Antoniv, T. T. 182
Antoniw, J. F. 9731, 13192
Antonova, O. Y. 8881
Antosiewicz, D. M. 12370
Antrobus, S. 1000
Anupam Joshi 6638
Anuradha, K. 3275
Anuradha, T. 10555
Anwar, R. 565, 7406, 7719
Anzalone, S. L. 7802
Anzani, R. 3161, 5287, 6309
Ao, G. M. 11555
Aoki, C. 1020
Aoki, H. 10351
Aoki, S. 1147, 10927
Aono, M. 9729
Aotsuka, S. 403, 11604
Ap Rees, T. 7686
Apel, K. 842, 8492, 9676
Apolinarska, B. 299
Aponte, A. 1757
Apostol, V. 10792
Apotheker-de Groot, M. 8564
Appadurai, R. 11538
Appelqvist, L. Å. 13175
Appels, R. 2419, 7698, 7793, 7824, 7831
Appleby, R. D. 8107
Appleford, N. E. J. 5939, 12527
Applewhite, P. B. 11885
Aradhya, K. M. 788, 7454
Aragoncillo, C. 12216

Aragüés, R. 8966
Arahira, M. 13323
Arai, M. 1012
Arai, S. 313, 6023, 12724
Arai, Y. 1528
Araki, H. 3870, 12267
Araki, T. 3517, 10000
Arama, P. F. 6777
Aramendis, H. 9111
Araújo, M. L. de 3061
Araújo, M. R. A. de 11528
Araus, J. L. 8890, 12605, 12608
Aravanopoulos, F. A. 3346
Aravindakshan, M. 6626, 8439
Araya, A. 142, 10088
Araya, W. A. 8124
Arbinger, B. 4816, 9524
Arboriculture Fruitière 4136, 4139, 4198, 5222, 5236, 5251, 5256-5257, 7268, 10833, 11969-11970, 11972
Archbold, D. D. 5280-5281
Archer, E. K. 12144
Archer, T. L. 9164
Archibold, O. W. 8058
Archie, J. W. 2394
Arcioni, S. 1654, 2829, 9281
Arco Aguilar, M. del 5615
Arcuti, P. 5274
Ardelean, L. 10774
Ardelean, M. 10721, 10725-10726, 10739-10740, 10774
Arditti, J. 7572
Ardizzone, F. 10339
Areco, C. M. 8495
Aref'eva, L. P. 6715
Arello, E. F. 5565, 5635
Arenas, C. 1420, 7637
Arène, L. 6567
Arens, P. 12998
Arft, A. M. 12441
Argerich, C. A. 6623
Argillier, O. 12680-12681
Ari, Ş. 8959
Arias, D. I. 3020
Arias, E. R. A. 5385
Arias, I. 13328
Arias, M. B. 3526
Arias-Castro, C. 1043
Arias-Garzon, D. I. 5130
Arida, G. S. 10389
Ariño, J. 4587
Ario, T. 12092
Arista, M. 13318
Arisumi, K. 11044
Arisumi, K. I. 10634
Ariyanayagam, R. P. 8212, 9421
Ariyaratne, H. P. 9421
Ariyo, O. J. 9360
Arjmand, M. N. 2026
Arjunan, A. 11583
Arjunan, G. 3978, 10546
Arkansas Farm Research 8862
Arkhipchuk, M. V. 2378
Arkhipchuk, V. V. 2378
Arkhipov, N. P. 3354
Armstrong, C. 5957
Armstrong, C. L. 338, 5991
Armstrong, E. L. 12892
Armstrong, K. 7743, 7811
Armstrong, K. C. 466, 3589
Arnal, E. 9483
Arnason, J. T. 351, 7957, 9161, 10304, 12684
Arnau, J. 9991-9992
Arnaud, Y. 740
Arnauld, O. 10865
Arneson, C. P. 10596
Arnim, A. G. von 10000, 10021
Arnison, P. G. 1943
Arnold, J. 1194
Arnold, M. 5786
Arnold, M. L. 2200, 4445, 8704, 11078
Arnold, N. P. 3380, 4408
Arnold, S. J. 11241
Arnold, S. von 2051, 2121, 5595, 7487, 8640, 9816, 11028
Arnoldo, M. 13138
Arnoldo, M. A. 12123
Arnould, J. 6667
Arnow, L. A. 12806
Arntzen, D. 6064
Arntzen, F. K. 2975, 3008, 7170
Arokiaraj, P. 10988
Arondel, V. 11207
Arora, P. 8232
Arora, P. P. 9417
Arora, R. 10757
Arora, R. L. 4170
Arora, R. N. 1773
Arora, S. K. 595, 5219, 6186, 13039, 13044
Arpaia, S. 697
Arraes Maia, G. 10619
Arrambide, E. 3175-3176
Arriaga, H. O. 6780, 12631
Arriel, E. F. 11420
Arrieta, V. 11684
Arrillaga, I. 4357, 8618
Arriola, P. E. 628
Arroyo, R. 5201
Arruda, H. V. de 7948
Arruda, P. 4569, 6883
Arruda Veiga, R. F. de 4253
Arseniuk, E. 2437, 3449, 3581, 6778
Arshad, M. 6518
Arshad, Y. 9471
Arslan, N. 9679
Arst, H. N., Jr. 12395
Arteca, R. N. 4386, 8225
Artemenko, E. N. 2555
Artemova, L. I. 10662
Arteta de la H., E. 5128
Arthur, A. E. 6093, 6341, 12116
Arti, A. 6938
Arti, G. 12783
Arti, P. 9172
Artunduaga, R. 9511
Aruga, Y. 5685
Arulsekar, S. 4157
Arumugachamy, S. 7992
Arumugam, N. 10841
Arumugam, R. 726, 1885
Arumuganathan, K. 7216
Arun Kumar 5111
Aruna, M. 4147
Arunachalam, V. 863, 1956
Arundhati Mukhopadhyay 630
Arús, P. 92, 9644, 11464
Arutyunova, E. V. 12580
Arya, A. S. 10843
Arya, I. D. 1046
Arya, S. 1046
Arzani, A. 2663
Arzani-Shams Abbadi, K. 10749
Asad, S. 3919
Asada, K. 793, 9951
Asada, Y. 12435
Asadullah Tahir 10860
Asahi, C. 415
Asahi, T. 12092
Asaka, D. 1771
Asakawa, Y. 8352
Asano, H. 4410
Asano, S. 9195
Asano, Y. 6070, 7559, 10408, 13372
Asanzi, C. M. 9160
Asay, K. H. 1625, 4925, 4928, 6735, 8075, 12311
Asch, M. A. J. van 1435, 9713
Ascher, P. 2159
Ascher, P. D. 11993-11994, 13357
Aseem, A. 5356
Asemota, H. N. 7182
Asfaw, T. 6149
Asghar, M. 4727
Asgher Ali 4771
Ash, J. E. 2112
Ash, O. A. 223, 11335
Ashalatha, M. 5402
Ashapkin, V. V. 182
Ashari, S. 13098
Ashburner, G. R. 4240
Ashcroft, W. J. 8322
Ashfield, T. 1844, 7231
Ashikawa, I. 8005, 9198, 10353, 11566
Ashiq Hussain 3615, 4221, 6004
Ashizawa, M. 6247
Ashok Kumar 2923
Ashraf, A. 634
Ashraf, M. 653, 7126, 7589, 9412, 9724, 10369, 12555
Ashraf, M. Y. 1329, 2518
Ashton, A. R. 4680, 4818
Ashurst, J. L. 918
Ashutosh Roy 3653
Ashworth, E. N. 6931
Asiedu, R. 1144, 12949
Asieshvili, L. V. 4533
Asino, G. O. 2698, 2703
Asins, M. J. 5245, 11891
Asir, R. 2558
Asker, S. 2382
Askew, G. R. 9807
Aşkın, A. 9583
Askman, P. 5888
Aslam, M. 193, 1594, 6994, 7912
Aslane-Chanabé, C. 13144
Aslanov, S. M. 1978
Asoeva, L. M. 5496
Aspart, L. 1812
Aspegren, K. 5905
Aspuria, E. T. 10932, 12134
Assabgui, R. A. 7957, 12684
Assad, N. 4591, 13207
Assadian, N. W. 3314
Asselin, A. 10148, 10522
Assienan, B. 367
Assy-Bah, B. 3233
Astanakulov, T. È. 11831
Asthana, A. N. 1739, 9410
Astier-Manifacier, S. 8568
Astorga, R. 2114
Ataga, C. D. 6365, 12068
Atakisi, I. 7341
Atale, S. B. 5887
Atanasov, G. 9610
Atanasov, Z. 2530
Atanassov, Z. 2530, 12566
Atanassova, R. 12398
Atchley, A. A. 12361
Ateeque Ahmad 13387
Atefi, J. 9640
Atherton, T. L. 3524, 6484
Atiri, G. I. 8221
Atkin, O. K. 2516
Atkinson, B. 9044
Atkinson, B. G. 3743, 9019-9024
Atkinson, I. J. 6606
Atkinson, M. D. 5841
Atkinson, R. G. 6312
Atlagić, J. 7354, 11854
Atlan, A. 2346, 4484
Atlin, G. N. 955, 2845
Atsmon, D. 3642
Attene, G. 2433
Attere, A. F. 1085
Attree, S. M. 3353, 13314
Audergon, J. M. 5244
Audy, P. 8570
Aufhammer, W. 295, 11683
Aufsatz, W. 8822
Auger, D. 7910-7911
Augustin, E. 5158, 7261
Augustin, S. 5548
Augustine, D. 12254
Augustyniak, H. 6092
Aujla, S. S. 2528
Aukerman, M. J. 5780
Aulakh, K. S. 12567
Auld, D. L. 7320
Ault, J. R. 12234
Aune, J. B. 11777
Aung, M. 8106
Auran, G. 7291
Auricht, G. C. 3916
Austin, D. F. 1806, 1809, 6076
Austin, M. E. 4147
Austin, M. T. 9318
Austin, R. 11281
Austin, R. B. 6, 8219, 11293, 12464
Austin, S. 6230, 6244
Australia, CSIRO Division of Plant Industry 138, 8863
Australia, Queensland Department of Primary Industries 3110
Austria, Bundesanstalt für Pflanzenbau 1070
Austria, Vereinigung österreichischer Pflanzenzüchter 3443
Austria, Vereinigung Österreichischer Pflanzenzüchter 13412
Ausubel, F. M. 1167, 2362, 7616, 11211
Autran, J. C. 8907
Autumn, K. 30
Avadhani, K. K. 6610
Avakyan, É. R. 389
Avalkina, N. A. 1413, 12667
Avanzi, S. 5864
Avatar, R. 1056
Avdeev, Yu. I. 1846
Avenant, V. 6969
Aver'yanov, A. A. 12770
Avetisov, V. A. 1789
Ávila, A. C. de 11900
Avila, C. 3670
Avila, J. 10892
Avio, L. 551
Avitia García, E. 762-764
Avjioglu, A. 1627
Avrova, A. O. 5187, 13019
Avtar, R. 10970
Avtar Singh 2088-2089
Awang, K. 9792
Awasthi, L. P. 3846
Awasthi, O. P. 6333
Axelos, M. 1156, 4038, 4586
Axtell, J. D. 4861, 6931, 6937, 11529
Ayalde de Varón, G. 2010
Aycock, M. K., Jr. 8563
Aygalent, C. 9802
Aymard C., G. 4359
Ayoub, M. 7779
Ayre, D. J. 7503
Ayres, N. M. 12717
Ayub, M. A. 8163
Ayyamperumal, A. 6451, 7148
Azab, A. M. 3776
Azad, M. A. K. 341, 5975
Azam, F. 12555
Azanza, F. 8335
Azanza, J. L. 12917
Azarenko, A. N. 4138, 9653
Azcón-Bieto, J. 7, 6488
Azhakiamanavalan, R. S. 7295
Aziz, A. 4811, 4830
Azmi, A. R. 2518, 12153
Azmi, O. R. 12884
Azudin, N. 13399
Azuma, M. 5647
Baarda, G. 1778
Baatvik, S. T. 8688
Baaziz, M. 7309
Baba, A. 11563
Baba, T. 1528, 8013, 10270
Babalakova, N. 10670
Babasaki, K. 4504-4505
Babayants, L. T. 244, 11359
Babczinsky, J. 3680
Babelegoto, N. M. 4072
Babeux, P. 10990, 11034
Babic, I. 8286
Babin, J. 10717
Babnik, D. 1691, 10427
Babu, C. R. 1006, 1766, 6638
Babu, K. N. 6611, 7550, 9927, 9931
Babu, L. 12957
Babu, M. K. 2233
Babu, P. C. S. 5745
Babu, P. P. P. 6002
Babu, R. S. 5745
Babu, V. R. 1767, 12040
Bacchi, Mo. 3201
Bacchi Lazzari, L. 4652
Bach, E. E. 9191
Bachchhav, M. S. 10900

Bachelier, B. 8575
Bachmann, A. 10506
Bachmann, K. 7588
Bacic, A. 2062, 3282, 6486, 8551
Backhaus, R. A. 8059
Backhouse, D. 2538
Backlund, A. 11256
Bacon, C. W. 9157
Bacon, J. R. 556, 5049
Badaev, N. 7692
Badami, P. S. 3991
Baden, C. 6498, 10181
Badenes, M. L. 5245
Badger, M. R. 6490, 13229
Badji, S. 1061
Badoux, S. 4922
Baek, M. K. 9114
Baenziger, P. S. 168, 1247, 5855, 7767, 10075, 10087, 10112, 13413
Baer, D. von 2251
Baergen, K. D. 8340
Baes, P. G. 6260
Båga, M. 915-916, 4678
Bagchi, S. K. 9794, 13256
Bagga, P. S. 249, 12514
Bagge, J. O. 2527
Baggett, J. R. 2909, 9400, 12903
Bagheri, A. 10525
Baginsky, C. 10513
Bagnara, D. 5864
Bagnara, G. L. 5238
Bagniol, S. 6328
Bah, B. A. 6395
Bahadur, B. 1997
Bahadur, J. 5379
Bahadur, P. 248, 2439, 7814
Bahia Filho, A. F. de C. 1485, 3777
Bahk, J. D. 11699
Bahksh, A. 11768
Bahl, A. 1112, 2266
Bahl, J. R. 13387
Bahl, N. 4506
Bahrman, N. 12215
Bahukhandi, D. 4506
Bai, D. P. 12573, 12583
Bai, K. V. 1144, 12949
Bai, P. Y. 2238
Bai, R. Q. 8392
Bai, X. F. 1945
Bai, Y. 3281
Bai, Y. Y. 7402, 7422
Bai, Z. 12499
Baidya, S. 6334
Baier, A. C. 4660
Baig, M. J. 2750
Baijnath, H. 11070
Bailey, J. 12807
Bailey, J. A. 8222, 9407
Bailey, J. P. 3881
Bailey, K. L. 7806
Bailey, M. A. 4990, 10490
Bailey, R. A. 12110
Bailey-Serres, J. 9012, 11437
Baillet, B. 12382
Baillie, A. M. R. 1365
Bain, H. 9465, 12934
Bains, P. S. 4007
Bains, S. S. 12974
Bains, T. S. 6206
Baird, E. 8255, 9454
Baird, W. V. 3791, 4140
Baĭtulin, I. O. 4530
Bajaj, M. 2063
Bajon, R. 12781
Bajpai, G. C. 9411
Bajwa, M. A. 13177
Baker, A. 6478
Baker, B. 3054
Baker, B. S. 6297
Baker, C. A. 6856
Baker, C. M. 3240, 4260, 8504
Baker, J. F. 10831
Baker, J. L. 8978
Baker, K. C. 3178
Baker, N. 9951
Baker, R. J. 2514, 8135, 10111, 12511
Baker, S. H. 3564
Baker, S. K. 7054
Baker, S. S. 7659
Baker, T. 4009
Baker, T. P. 10587
Bakewell, E. 8974
Bakheit, B. R. 6151
Bakhsh, A. 1742
Bakker, E. P. H. M. de 3804
Bakker, M. L. 13362
Bakr, M. A. 10542
Bakry, F. 5311-5312
Bakshi, S. K. 4485
Bakshi Ram 5415
Bala, A. 1749, 7130
Balakrishanan, S. 2232
Balakrishnan, B. 6404
Balakrishnan, K. 5994, 11583
Balakrishnan, P. C. 6371, 6375, 6397, 6406
Balakrishnan, S. 7178
Balakumar, T. 1593
Balamohan, T. N. 4172
Balan, A. 2940, 9447
Balandina, T. P. 11154
Balashova, N. N. 7095, 11894
Balass, M. 3089
Balasubramanian, R. 5994
Balasubramanyan, K. 4871
Balázs, E. 8528, 10953
Balázs, F. 2541
Balcells, L. 7634, 11225
Balcells, L. I. 5773
Balčiūnienė, L. 2590
Balconi, C. 1460
Baldan, B. 11008
Baldani, M. 7352
Baldet, P. 8647
Baldi, A. 5288
Baldi, B. G. 150
Baldini, R. M. 4934
Baldursson, S. 2145, 2147, 9788, 11028
Baldwin, B. G. 3937
Balestrazzi, A. 6539
Balestri, E. 6617
Balfourier, F. 456, 3877-3878, 8067, 10395
Baligar, V. C. 1485, 3777, 8105, 9289, 10064
Balík, J. 781, 10794
Balint, L. 8160
Balint-Kurti, P. 7231
Balint-Kurti, P. J. 3071, 13018
Balkar, S. Y. 1713
Balkema-Boomstra, A. G. 6850
Ball, D. A. 2568
Ball, S. 1125
Ball, S. T. 3460, 4670
Balla, L. 1257, 4687
Ballantyne, B. 7590, 7804
Ballard, R. 4140, 7499
Ballaré, C. L. 11935
Baller, L. M. 1066
Ballesteros, J. 3597
Ballington, J. R. 1902, 6306, 13077
Ballvora, A. 3994
Balmer, E. 11503
Balnave, D. 4979
Baloch, M. J. 12164
Balodis, V. 13264
Baltazar, B. M. 6121
Baltensperger, A. 1635
Baltensperger, D. D. 10075
Baltz, R. 3217
Balwant Singh 13039
Balyan, D. S. 7172
Balyan, H. S. 10169
Balyan, R. S. 8947
Balzarini, J. 632
Balzarini, M. 6930, 6954
Balzer, H. J. 11193
Bamberg, J. B. 1785, 11791
Ban, T. 11326
Banaras, M. 6619, 9557, 10694
Banas, M. 8705
Banaszczyk, J. 5269
Banba, H. 2874
Bancroft, I. 1158, 5773
Bandaranayake, H. 4594
Bandi, C. 8604
Bandion, F. 5294
Bandman, E. B. 5286
Bandurski, R. S. 38
Bandyopadhyay, A. K. 2756
Bandyopadhyay, S. 1682
Banerjee, S. 3426, 4475, 11103
Banerjee, V. N. 12935
Banerji, B. 3847
Banerji, C. 3847
Bang, K. H. 11606
Banga, H. 6988
Banga, S. K. 1936, 1942
Banga, S. S. 1942, 8471
Bangerth, F. 7101
Bani-Aameur, F. 607, 8240
Banihashemi, Z. 2928
Banka, R. A. 8624
Banks, J. A. 5965
Banks, P. M. 1293, 3536, 3889, 8063
Banks, P. R. 10840
Banks, S. W. 10980, 12172
Bannerot, H. 9532, 11744, 12883
Bannikova, V. P. 10211
Bannon, C. 5327
Bannon, J. S. 5338
Bannova, Z. V. 10182
Bano, F. 9667
Bano, S. 12497
Bansal, K. C. 2497, 11832
Bansal, P. 6837
Bansal, U. K. 861, 1426, 1461, 1983, 1985, 7363
Bansal, V. K. 9673
Banta, L. M. 2320
Bañuelos, G. S. 12051
Bänziger, I. 9674
Bänziger, M. 10118
Bao, P. H. 11562
Bao, S. L. 490
Bao, X. 7087
Baon, J. B. 7850
Bapat, D. R. 10316
Bapat, V. A. 12008, 12297
Bapu, J. R. K. 11590, 11611
Baqui, M. A. 7008
Bar, M. 3057
Bar-Joseph, M. 3089
Bar-Zur, A. 2689, 3755, 11511
Bar-Zvi, D. 13000
Bara, J. M. 8064
Bara, R. F. 9856
Barabanova, E. A. 10211
Barabás, Z. 3537, 6793
Baradat, P. 12215
Barakat, M. N. 4707
Barakate, A. 308, 2673
Baralieva, D. 1848, 4095
Barampama, Z. 12877
Baranger, A. 12037
Barbara, D. J. 4120
Barber, C. E. 1959, 5786
Barber, J. F. 9859-9860
Barber, L. 7109
Barbera, A. C. 2860
Barbier-Brygoo, H. 909, 13203
Barbin, D. 1173
Barbosa, H. M. 5038
Barbosa, M. H. P. 5635
Barbosa, W. 4142, 5259, 5307
Barbosa Neto, J. F. 6864, 12532
Barbour, J. D. 3079, 9555
Barcellos, A. L. 4674
Barceló, J. 343
Barceló, P. 3578, 7696
Barclay, A. 9750
Barczak, M. 1862
Bardet, C. 1156, 4586
Bardon, C. 8743
Bardonnet, N. 8566
Bargale, M. 589, 1760, 5005, 6150
Barghchi, M. 554, 6674
Bargioni, G. 5249
Bari, A. 7823
Barigidad, H. 6569
Baril, C. P. 12551
Bariola, P. A. 4582
Bariteau, M. 8630
Barkan, A. 7930-7931, 11455
Barkat Ali 5389
Barker, D. 5057
Barker, D. G. 2825, 3918, 11666
Barker, H. 3004, 4312, 12944-12945
Barker, J. H. A. 7711
Barker, K. R. 3101
Barker, N. P. 4935
Barker, R. E. 3883
Barker, S. J. 10677
Barkla, B. J. 6275
Barkworth, M. E. 8094
Barlow, P. W. 1834
Barloy, D. 335
Barman, T. S. 13196
Barna, K. S. 10537
Barnabás, B. 337, 1144, 1310, 1465, 3628, 5880
Barneby, R. C. 7463, 13287
Barnes, B. V. 5543
Barnes, D. K. 9284, 10426, 10428, 13421
Barnes, G. 9007
Barnes, M. F. 9576
Barnes, P. W. 3845
Barnes, R. F. 13413
Barnes, S. 5604
Barnes, W. 6663
Barnes, W. M. 4390
Barnett, R. D. 1416
Baron, A. 9054
Baroncelli, S. 5384, 8496
Barone, A. 1783, 2976, 5086, 9459, 11820
Barone, E. 8455
Baroni, G. 5249
Barrade, R. 13346
Barratt, D. H. P. 588, 5046
Barreto, I. L. 10485
Barreto, M. 3074
Barrett, H. 8447
Barrett, H. C. 798, 4180
Barrett, J. W. 7481
Barrett, S. C. H. 2398, 4467-4468, 9908-9909, 11064, 11653
Barrière, Y. 1437, 1455, 5976, 12680-12681
Barriga B., P. 1252
Barrios, M. 13158
Barrios C., L. 5017
Barriuso Vargas, J. 708
Barros, E. G. de 11440
Barros, I. de 5635
Barros, R. 7146
Barroso, G. 2242, 4492
Barry, D. 10302
Barry, T. N. 5506
Barsby, T. 5363
Bartels, D. 81, 916, 6577, 8669, 8674, 11167, 12594, 12621
Barth, S. 1970
Barthakur, B. K. 8532
Barthakur, M. P. 7549
Barthe, J. P. 2310
Barthelemy, I. 4472
Bartholomew, D. M. 5172
Barthou, H. 4710
Bartlett, S. G. 11203
Bartley, G. E. 7618, 10002-10003
Bartling, D. 59, 66, 11206
Bartnicki, D. E. 5755
Bartnik, M. 7875
Bartók, T. 2533, 2537
Bartolini, G. 3458
Bartolini, S. 5395
Bartoloni, N. 8835
Barton, C. A. 12853
Barton, J. H. 12352, 12354
Barton, N. H. 4607, 4615, 8836
Barton, S. 675
Barton, S. L. 1829, 8325
Bartoš, P. 195, 3658, 4552, 4736, 4738, 4740, 6779, 10143, 11364
Bartsch, D. 4
Bartual, R. 8359
Bartuzi, G. 12049

Barua, P. K. 1949
Barua, U. M. 1370, 4765, 5849, 6823, 12607
Baruah, D. K. 7991, 7996
Baruah, K. K. 4896
Baruzzi, G. 10772
Barve, D. M. 7135, 8620
Barwale-Zehr, U. 11529
Barz, W. 5063, 6114, 6209
Barzen, E. 3269
Barzilay, A. 8682-8683, 11065
Basandrai, A. K. 1333
Basant Ram 9153
Basarkar, P. W. 5511
Bascomb, N. F. 7595
Baser, K. H. C. 9934-9935
Baset, A. 435
Basford, K. E. 8509
Bashar, G. 13244
Bashar, M. K. 6011
Bashaw, E. C. 6958
Bashir, M. 3982
Bashir, S. 6436
Basner, A. 6232
Basra, A. S. 12514
Basra, S. M. A. 13177
Bassam, B. J. 3948
Bassett, M. J. 1724, 12874-12875
Bassetti, P. 1400
Bassi, D. 5255, 10760
Bassi, G. 3108
Bassi, P. 8706
Basso, B. 2511
Basso, F. 2511, 12907
Bastidas R., G. 1720
Bastide, P. 4286
Bastien, C. 6554-6555
Basu, A. 7789, 8049
Basu, A. K. 2083, 6511
Basu, N. C. 10895
Basu, U. 7789
Baswana, K. S. 7172
Baszczynski, C. L. 8469
Batajoo, K. K. 9133
Batcha, M. B. G. R. 881
Bates, G. W. 13218
Bates, K. J. 9025, 9124
Bates, R. P. 8978
Bationo, A. 9431
Batistuti, J. P. 8291
Batlle, I. 9568
Batoev, B. B. 210, 1300
Batra, R. C. 3483, 5323
Batra, V. I. P. 6837
Batra-Sarup, V. 13131
Batschauer, A. 844, 4227, 5760, 8491, 8733
Battershell, V. G. 160
Battistini, S. 3132
Batygina, T. B. 1144, 1204, 5666, 7444
Bätz, W. 8269
Bauchan, G. R. 3916, 6075
Baucher, M. 7436
Baud, S. 7907
Baudoin, J. P. 5031, 7411, 8177-8178
Baudouin, L. 12071, 13146, 13154
Bauer, H. 9846
Bauer, M. 6525
Bauer, P. 12813
Bauer, S. 8639
Bauer, W. D. 522
Bauers, F. 8493
Baulcombe, D. C. 6243, 6502
Baum, B. 10304
Baum, B. R. 2396-2397, 3902, 12033
Baum, D. A. 13363
Baumann, T. E. 8420
Baumel, C. P. 1708
Baumgartner, B. J. 5914
Bäumlein, H. 1716, 2879, 9380, 11193, 12416, 12634
Bauske, E. M. 8941, 10297
Bauw, G. 11222
Bauwe, H. 9452, 9865
Bauwens, S. 1159, 10006
Bavaresco, L. 4161
Bawa, J. 9429
Bawa, K. S. 970, 8614, 13281
Bawden, A. D. 8637
Baxter, L. W., Jr. 6562
Bayaa, B. 6200, 8140, 12909
Bayles, R. 2436
Bayley, A. D. 2204
Baylis, B. 13306
Baysdorfer, C. 12662
Bazely, D. R. 9591
Beach, J. H. 2408
Beachy, R. 5380
Beachy, R. N. 3303, 4308, 5471, 6123, 6670, 9335, 10950, 12744, 13227
Beagley, C. T. 10232
Beale, P. E. 7052
Beale, R. E. 8466
Beals, T. P. 2384
Beames, R. M. 2844
Bean, A. R. 4403
Bean, S. 6742
Beardsell, D. V. 2162, 8852
Beardsley, A. 7847
Beaton, C. D. 3644
Beaulieu, J. 5593, 13316
Beaulieu, N. 7423
Beaumont, V. H. 322
Beaver, J. A. 13062
Beaver, J. S. 6162, 7105
Beavis, W. 9014
Beavis, W. D. 6121, 10245, 11442
Bebeli, P. J. 300, 4802
Bebyakin, V. M. 1311, 12543
Becana, M. 8146
Becerra Velásquez, V. L. 8176
Bechere, E. 2552, 6761
Bechet, G. R. 12110
Bechir, A. M. 4100
Bechtold, N. 7624
Bechyně, M. 5356, 11344
Bėčius, K. 2902
Bėčius, V. 2902
Beck, A. 4054
Beck, D. P. 8134
Beck, M. 2219
Becker, D. 2501, 4681, 7696
Becker, E. 6618, 13400
Becker, G. 8603
Becker, H. A. 5964
Becker, H. C. 1954, 3191, 6754, 6761, 11324
Becker, T. W. 7221
Becker, W. M. 4112
Beckert, M. 335, 1144, 7907
Beckie, H. J. 2719-2720
Beckman, C. H. 13246
Beckman, T. 13066
Beckman, T. G. 4145
Beckmann, J. 12428
Beckmann, J. S. 1137
Beckum, J. M. M. van 5915
Béclin, C. 8303
Becraft, P. W. 1187, 9086
Beddis, A. L. 2538
Bėdė, Z. 1257
Bedell, J. L. 1648
Bedenko, V. P. 12536
Bedford, M. R. 4979
Bedin, P. 2993
Bedinger, P. A. 5956
Bednarek, S. Y. 7623
Bedő, Z. 222, 1257, 4687, 4723, 5880
Bedov, M. 7354
Beebe, S. 2901
Beech, R. N. 7481
Beeching, J. R. 8287, 10618
Beek, H. van der 8343
Beem, J. J. van 6161
Beena Lawrence 13383, 13391
Beer, C. A. de 5639
Beer, S. C. 5932
Beerhues, L. 5838, 6229
Beers, E. P. 11463
Beetham, J. K. 11205, 11800
Beffa, R. 5456, 5465
Begemann, F. 13408
Beggs, K. 8238
Beglinger, C. 12493
Begon, M. 10412
Bégu, D. 142, 10088
Begum, D. 11769
Begum, H. 2692, 6904
Beharav, A. 8898
Behera, P. K. 12061
Behl, H. M. 5515
Behl, R. K. 205, 1955, 11351
Behr, C. F. 5947
Behrendt, U. 13322
Behrens, U. 3729
Behringer, F. J. 9403
Bei, Y. W. 2773
Beiderbeck, R. 7450
Beier, D. 1142
Beier, H. 1142, 9717
Beijersbergen, A. 1149
Beiles, A. 2620, 6815
Beineke, M. 8487
Beinsberger, S. E. 914
Beinsberger, S. E. I. 12150
Bejarano, E. R. 3305, 5477
Bejarano M., A. R. 9119
Bejiga, G. 2925
Bejoy, M. 5333
Bekele, F. L. 12121
Bekele, I. 12121
Bekele Hunde 1755
Bekkaoui, D. R. 825
Bekkaoui, F. 4559
Belachew, A. 9040
Belaizi, M. 9577
Belajouza, M. 8199
Belalcázar G., J. 4909
Bélanger, A. 9594
Belanger, F. C. 4589
Bélanger, R. R. 3374
Belay, G. 6754, 6761
Belcher, A. R. 9129
Beletskiĭ, Yu. D. 10864
Belford, R. K. 4656, 8892
Belhassen, E. 4484
Belicka, I. 2588
Belitz, H. D. 12540
Belkhodja, M. 7097
Belkhodja, R. 7854
Belknap, W. R. 5089, 11800, 11806
Bell, A. C. 6855
Bell, E. 5768
Bell, G. 6704
Bell, J. C. 9936, 13262
Bell, K. L. 4869
Bell, L. M. 3872
Bell, M. H. 2053
Bell, M. J. 7360-7361, 12080-12081, 13159
Bell, P. R. 6701
Bell, R. W. 1711
Bell, S. 6591
Bellato, C. 4289
Bellemare, G. 6262, 8469, 12226
Belletti, P. 702, 2129
Belli, M. L. 5864
Bellini, C. 12420
Bellini, E. 5262, 11966, 11977, 11979
Bello, L. 9360
Bello, S. 3748
Bellon, M. R. 12651
Belloni, P. 1240
Beloshapkin, S. P. 4750
Béloualy, N. 1242
Belouin, A. 10737
Belousov, A. A. 10275
Belousova, E. M. 6759
Below, F. E. 11459
Belthoff, L. E. 4140
Beltran, J. P. 6581
Belyaev, A. A. 12870
Belzile, F. 13003
Bem, F. 8760
Ben Aicha, B. 13020
Ben-Chaabane, A. 6082
Ben-Hayyim, G. 5443
Ben-Moshe, E. 10455
Ben-Yephet, Y. 3399, 3401, 3403
Benada, J. 12479
Benatti, L. 4472
Benavente, E. 293
Benavides, M. P. 6603
Benbow, R. M. 7600
Bendahmane, A. 5787
Bendale, V. W. 6863, 7142
Bender, A. 2781
Bendich, A. J. 48, 9978
Bendre, N. J. 2927, 3978, 10546
Bendremer, J. C. M. 11487
Benedetelli, S. 7777
Benedetti, C. E. 10030
Benedict, C. R. 2108, 4337, 9744
Benedict, J. H. 3330, 9754
Benedictis, J. A. de 13089
Benedictis, J. de 3168
Benedictos, P. 13022
Benediktsson, I. 8699
Benetka, V. 8671
Bénétrix, F. 8907
Benfey, P. N. 11221
Bengtsson, B. O. 2605, 8955, 12438
Benhamou, N. 6278, 11747
Benítez Riquelme, I. 6750
Benito, C. 7871
Benito, M. I. 11441, 11461
Benito Moreno, R. M. 1144
Beniwal, B. S. 5677
Beniwal, S. P. S. 6149, 6200
Benjamin, B. D. 6601
Benko, A. 1285
Benmahamed, A. 1364
Bennedsen, B. S. 12229
Bennet, R. J. 3644
Bennett, A. B. 677, 4069, 9541, 12996
Bennett, B. D. 4445
Bennett, I. J. 5534
Bennett, J. 7012
Bennett, M. D. 467, 2376, 3600, 3881
Bennett, R. 6352
Bennett, R. B. 3564, 3570, 4202
Bennett, R. D. 12015
Bennett, S. T. 467, 2376, 3881
Bennetzen, J. L. 3731, 5840, 7210, 7964, 9043, 10293, 12660
Benninga, W. 12109
Benoit, D. L. 12053
Benoit, G. 3232
Bensch, M. J. 2694
Bensen, R. 7897
Benson, E. E. 10377
Bent, A. F. 1168, 3529
Bentur, J. S. 3863, 7012
Bentzer, B. G. 2264
Benveniste, P. 13223
Benveniste-Levkovitz, P. 3642
Benvenuto, E. 5470
Benz, B. F. 11475, 11479
Benzine-Tizroutine, S. 7161
Bequette, R. K. 3585
Beránek, F. 9942
Beranger-Novat, N. 4397
Bérard, P. 6747, 12531
Berardi, G. 2393
Berardo, N. 3690
Berbeć, A. 5454-5455, 13215-13216
Berbeć, J. 5454
Berberich, S. A. 3317, 5755
Bercetche, J. 11029
Berdahl, J. D. 9261
Berding, N. 6439
Berdnikov, V. A. 483, 1735
Beregovoy, V. H. 6812, 10067
Berends-Sexton, T. 5914
Berenguer, T. 3131
Berenyi, M. 2072
Beres, W. 8407, 8410
Berg, C. 3429
Berg, C. G. J. van den 8485
Berg, E. E. 8593-8594
Bergamaschi, M. 10772
Bergamin Filho, A. 8520, 8522, 9701
Bergelson, J. 7203
Bergen, B. 8108
Berger, K. 9122

Berger, M. 10487
Berger, S. 11670, 12465
Bergeron, D. 8469
Bergeron, S. N. 8274
Bergervoet, J. E. M. 3998, 11804
Bergervoet, M. 1830
Bergervoet-van Deelen, J. E. M. 9457
Berggren, G. T. 10491
Bergh, J. C. 5239
Bergier, E. 11932
Bergman, A. 8827
Bergman, J. W. 11371
Bergman, P. 4206
Bergmann, C. W. 11747
Bergmann, F. 2150, 4378
Bergström, G. 8715
Bergstrom, G. C. 10131, 10431, 12568
Bergström, L. G. 12301
Bergvinson, D. 10304
Berhane G/Mariam 7685
Berhow, M. 12015
Beri, S. M. 482, 1409, 1950
Beriam, L. O. S. 2941
Beringer, J. E. 12375
Berkel, J. van 8260
Berkelman, T. 7839, 8811
Berkett, L. P. 8388
Berkowitz, G. A. 2067, 11393
Berkutova, N. S. 10063
Berlinger, M. J. 9479
Berlyn, M. 10245
Bermawie, N. 4088
Bermejo Velázquez, B. 5526
Bernacchia, G. 12621
Bernal, A. 703
Bernal, G. 3933
Bernalte, J. 1823
Bernard, E. 13301
Bernard, L. 9131, 9140
Bernard, M. 201, 3625, 7733, 12489, 12491
Bernard, S. 201, 2662, 3625, 7733
Bernardello, L. M. 1853, 10822
Bernardo, R. 5948, 6903
Bernatené, E. A. 9065
Bernatzky, R. 1835
Berndt, W. A. 10520
Bernhard, R. 13421
Bernhard, W. R. 11219
Bernhardt, J. 823
Bernhardt, J. L. 11549
Bernicot, M. H. 11298
Bernier, A. M. 12541
Bernier, C. C. 2881, 8139
Bernier, G. 2358, 11628
Bernier-Vadnais, N. 8247
Berrío, L. E. 11548
Berry, J. O. 450
Berry, P. E. 5569
Berry, R. J. 11130
Berry, S. Z. 4053
Bersimbaev, R. I. 2562
Bersuder, D. 6506
Berta, G. 7555, 8196
Bertauche, N. 10007
Bertazza, G. 742
Berthomieu, P. 1156, 8303
Bertin, R. I. 5804, 7673
Bertolini, M. 6877, 11472
Bertoni, G. P. 4112
Bertram, R. B. 3021
Bertrand, A. 5657
Bertrand, P. F. 10941
Bertrand-Garcia, R. 7924-7925
Bertsch, U. 9523
Beruto, M. 7514
Bervillé, A. 5542, 13367
Berzborn, R. J. 7108
Berzonsky, W. A. 1267-1270, 5851, 11315
Besga, G. 11684
Besnard, C. 13201
Bespalhok Filho, J. C. 13193
Bess, V. H. 8059
Besse, A. 6556
Besse, P. 7432, 9763
Bessière, J. M. 2236
Bessin, R. T. 3265
Bessis, R. 5289
Bessudo Kalmar, A. 4717
Bestolkova, L. A. 8403
Bethune, T. D. 11030
Betin, M. 12788-12789
Betti, L. 9559
Bettini, P. 6277, 8174, 8342, 8344
Beuerlein, J. E. 11730
Beule, T. 12067
Beuning, L. L. 605, 9573
Beus, M. de 6084
Beuscher, N. 12290
Beuselinck, P. R. 1674, 9309-9311
Beusichem, M. L. van 6899, 9145
Beute, M. K. 4264
Beuve, M. 2697
Bevan, M. 4435, 5748, 8238
Bevan, M. W. 5774, 5860, 11685
Beven, A. F. 5800
Beveridge, C. A. 8192
Beversdorf, W. D. 1947, 8484, 9349, 9662, 10459-10462, 10840, 13421
Bevins, M. 9307
Bevins, M. A. 6090
Bevis, E. E. 8550
Bewley, J. D. 43, 473
Beyene, D. 7685
Beyer, W. 2656
Beyhan, Ö. 9638
Beynon, J. L. 1169, 11228-11229
Bezborodova, S. I. 2386, 11242
Bežová, K. 3311
Bhadauria, N. S. 5379
Bhag Mal 11150
Bhagat, N. R. 3237, 3239
Bhagwan Deen 6333
Bhagwat, S. G. 8900
Bhagya, S. 10877
Bhajan, R. 2000
Bhakare, A. H. 8502
Bhakare, H. A. 8502
Bhalani, P. A. 580
Bhalekar, M. N. 10814
Bhalerao, V. P. 7312
Bhalla, J. K. 1759, 3991, 9914
Bhalla, S. K. 1408
Bhalla-Sarin, N. 12915
Bhalodia, P. K. 3239
Bhamre, D. N. 3784-3785
Bharaj, T. S. 388, 1538, 9236
Bhardwaj, B. L. 1409, 1950
Bhardwaj, C. L. 8489
Bhardwaj, L. 1049
Bhardwaj, M. L. 7244
Bhardwaj, R. P. 4327, 5502, 5508
Bhardwaj, S. C. 253, 2439, 7813
Bhargava, S. C. 3426, 8033
Bharodia, P. S. 596, 5067
Bharti, R. C. 7128
Bhaskar, J. 8439
Bhaskar, K. S. 1713
Bhaskar, R. B. 6946
Bhaskar, V. 9937
Bhaskaran, S. 12452
Bhat, M. G. 2085
Bhat, R. G. 9373
Bhat, R. N. 3382
Bhat, S. 6935
Bhat, S. R. 10802
Bhatade, S. S. 4332
Bhateja, S. K. 283
Bhateria, S. 278
Bhatia, C. R. 6664, 8900, 10853, 12923
Bhatia, G. L. 6186, 8197
Bhatia, R. S. 2088-2089, 9414
Bhatia, S. 3194, 7371, 8471
Bhatia, S. K. 6297
Bhatia, V. S. 11705
Bhatnagar, G. C. 4774
Bhatnagar, P. K. 2000
Bhatnagar, P. S. 514, 1709, 7081, 11726, 12855
Bhatnagar, S. P. 8365
Bhatt, A. 5773
Bhatt, A. M. 608
Bhatt, R. K. 10324
Bhatt, R. M. 8336, 10669
Bhatt, S. R. 13127
Bhattacharjee, A. K. 6334
Bhattacharya, A. K. 11100
Bhattacharya, C. 10550
Bhattacharyya, H. C. 7991
Bhattacharyya, M. K. 2350
Bhattacharyya, P. K. 1703
Bhattarai, M. R. 4848
Bhattarai, S. 8711
Bhatti, M. B. 3615, 4221, 5935, 6004, 12639
Bhatti, M. S. 565, 7406
Bhatty, R. S. 7577, 12614
Bhavani, N. L. 1759
Bhawani Singh 6607
Bhide, V. P. 10900
Bhoite, A. G. 3788
Bhojwani, S. S. 4217, 8365, 11120
Bhombe, A. D. 4905, 7236
Bhowal, J. G. 7816
Bhowmik, A. 218, 690
Bhuiya, M. R. H. 1607
Bhujbal, B. G. 11057
Bhullar, B. S. 2924
Bhupinder Singh 7100
Bhutani, R. D. 5168
Bhute, M. G. 8036
Bhuva, H. P. 6399
Bi, C. G. 12746
Bi, Y. J. 8904
Biacs, P. A. 9558
Biacs, P. K. 9558
Bialek, K. 150
Białobrzeska, M. 4348, 7439
Biancardi, A. 3693
Biancardi, A. M. 2493, 4649
Bianchi, A. A. 2451, 12056
Bianchi, G. 9685
Bianchi, M. 4652, 11201
Bianchi, M. W. 4580
Bianchi, P. G. 2273
Bianchini, A. 6158
Biancolatte, E. 4652
Biasi, L. A. 651
Biasini, M. G. 5384
Bibi, N. 4220
Bichler, J. 4037, 6255
Bichta, J. 4799
Bickelmann, U. 1378
Bidari, V. B. 3978, 10546
Biddappa, C. C. 6398
Bidinger, F. R. 1090, 6002-6003, 10330, 11537
Bidlack, J. E. 12853
Bidney, D. 3257
Bielawski, W. 4798
Bielig, L. M. 6439
Bieluga, B. 5231
Bieniek, M. 653
Biesboer, D. D. 10428
Biesheuvel, A. R. 11873
Bietz, J. A. 1385, 1444, 7918
Bieysse, D. 13198
Biggs, A. R. 5261, 8414
Bigirwa, G. 12682
Bigot, C. 5552, 10759
Bih, F. Y. 13294
Bijendra Pal 6757
Bijendra Singh 6285
Bijloo, J. D. 5724
Bijlsma, R. 8741, 12244, 13356
Bijman, W. J. 9455
Bijral, J. S. 8021
Bilaiya, S. K. 3976
Bilang, R. 156, 7738, 11180, 11310
Bilderbeek, S. 11151
Bilgen, G. 5877
Bilgrami, K. S. 10296
Biliaderis, C. G. 1586-1587
Billmore, S. D. 589
Billore, S. D. 5005, 6150
Billot, C. 4957
Billy, F. de 3918, 11666
Bilsborrow, P. E. 8479, 8483
Bilsen, D. G. J. L. van 1216
Bimal, R. 396, 2220
Binarová, P. 8475
Bindahmane, A. 1166
Binder, S. 4418, 11059
Binding, H. 5629
Bindra, A. S. 747, 13088
Bindu, M. 6384
Binek, A. 12803
Binelli, G. 1428, 3767, 9026, 9152, 12219
Binet, M. N. 4584
Bingham, E. T. 9282, 11654, 11660, 11662-11663
Bingham, J. 11293
Bini Maleci, L. 9898
Binns, A. N. 2320, 13204
Binns, M. R. 3473
Bino, R. 1144
Bino, R. J. 75, 700
Biofutur 9958
Biolley, J. P. 8664
Biondani, D. 10396
Biradar, D. P. 320-321, 12668
Birari, D. S. 583
Birari, S. P. 583, 862, 3992, 6013, 6863, 7142
Birch, A. N. E. 3017
Birch, R. G. 2006, 2340, 5404, 6437
Birchler, J. A. 3737, 3739, 12676
Bird, C. R. 9540, 10668
Bird, D. M. 10686
Bird, R. M. 11456
Bird, S. 10080
Birgersson, G. 8715
Birhman, R. K. 601, 5101, 8257, 10563-10564, 12937
Birks, J. S. 7482, 13302
Birmingham, J. M. 4488
Biryukov, S. V. 1298
Bisby, F. A. 11694
Bisgrove, S. R. 3529
Bishir, J. 7669
Bishop, B. L. 9595
Bishop, G. J. 7210, 7231
Bishop, J. 4583
Bisht, I. S. 3039, 8301-8302
Bisht, V. S. 4007
Bisio Grilli, L. M. 3175-3176
Bísková, R. 8671
Bisoffi, S. 6539, 8604
Bisseling, T. 521, 557-558, 3967
Bisson, J. 10777
Bist, H. S. 4160
Biston, R. 5050
Biswas, A. K. 1323, 2077
Biswas, B. K. 13112
Biswas, G. C. G. 3812, 4889, 10378
Biswas, M. R. 11067
Bitonti, M. B. 7670
Bittini, P. 8344
Bittisnich, D. J. 4218
Bittman, S. 10429
Bitu Roy 442
Biyashev, G. Z. 11383
Biyashev, R. M. 12626
Bizzarri, M. 4279
Bjarnason, M. 351, 1440
Bjarnason, M. S. 5977, 9141, 11505
Björnsson, H. 1638
Bjørnstad, Å. 10398
Black, K. G. 12104
Black, L. D. 9670
Black, R. C. 13204
Black, R. G. 5051
Blackwell, M. 1154
Blad, B. L. 12311
Bladier, C. 2967
Bláha, L. 11353
Blaich, R. 4158
Blair, D. 9013-9014
Blaise, F. 8568
Blaise, M. O. 10323
Blake, J. 6394

Blake, N. K. 6744
Blake, T. 4770, 6822
Blake, T. J. 7489
Blake, T. K. 6744, 8972, 12599
Blakeley, S. D. 3490, 4265, 12030-12031, 12094
Blakeney, T. 9197
Blakesley, D. 4568
Blakeway, F. C. 13263
Blakey, S. 9896
Blamey, F. P. C. 1986-1989
Blanca, G. 3433
Blancard, D. 3294
Blanchar, R. W. 9368
Blanchard, P. 8497
Blanché, C. 9878
Blanchet, P. 5300
Blanco, F. 12802
Blanco, L. R. 2837
Blanco-Labra, A. 9161
Blanco López, M. A. 4243
Bland, D. 176
Blando, F. 4151
Blank, M. L. 3532
Blankenship, K. M. 1402
Blas, C. de 5201
Blasse, W. 5253
Blatt, C. R. 178
Blatt, R. 7834
Blazey, E. B. 1416
Blechl, A. E. 265, 1402
Bledsoe, R. E. 7427
Bleecker, A. B. 76, 144
Blehová, A. 5634
Bleicher, J. 11503
Blenis, P. V. 2141
Bless, W. 6114
Bleve-Zacheo, T. 2917
Bliek, S. M. 9938
Bliss, F. A. 1718, 3493, 3961, 9607
Blixt, S. 17, 1100
Block, M. de 5764, 6345, 11222
Blocker, M. M. 11549
Blokland, R. van 5759
Blomstedt, C. 1144
Blondon, F. 8100
Bloom, G. C. 12138
Bloomquist, J. R. 5481
Blouin, D. 13316
Blukmanis, M. 3124
Blum, A. 11162
Blum, L. E. B. 10995
Blum, W. 7403
Blumenthal, C. 2505
Blumenthal, M. J. 1666
Blumwald, E. 6275
Blunden, R. 2648
Blüthner, W. D. 2535, 7810
Boase, M. R. 9609
Bobák, M. 5634
Bobby, T. P. M. 1541, 1563
Bobde, G. N. 4905
Bobowicz, M. A. 9815
Bobrova, A. V. 4684
Boccara, M. 8562
Boccard, F. 6502
Boccon-Gibod, J. 2968, 4115
Bochev, B. 4698, 5871
Bochkarev, S. V. 5153
Bock, H. 8672
Bock, J. H. 10944
Bock, T. S. M. de 10913
Bockelman, H. 7690
Bockholt, A. J. 1443, 1449-1450, 1452, 7945, 9137, 9164
Bocoum, F. 10310
Bodanese-Zanettini, M. H. 4991-4992, 6862, 8151
Bode, J. 12263, 12440
Bodeau, J. 11461
Bodelan, O. P. 10115
Bodergat, R. 5542
Bodinet, C. 12290
Bodnaryk, R. P. 1960, 3212, 7330
Boechat, S. C. 4938
Boef, W. de 2285
Boef, W. S. de 3855
Boer, B. G. W. den 2359
Boer, G. J. de 1016
Boerma, H. R. 4990, 9331, 10490
Boersig, M. R. 10585
Boerwinkle, E. 5792
Boese, S. R. 10589
Boeva, T. V. 1846
Bogachkov, V. I. 292
Bogani, P. 6277, 8342, 8344
Bogdanov, Yu. F. 10208, 12645
Bogdanova, V. S. 483, 1735
Boge, W. L. 9405
Boggini, G. 164, 1368, 4652, 8872
Bogorad, L. 6493, 7603, 13226
Bögre, L. 5355, 11659
Bogue, M. A. 10856
Bogusz, G. 12049
Bogyo, T. P. 7918
Bohac, J. R. 1806
Bohanec, B. 6054
Boher, B. 3023
Böhm, M. 3351
Böhme, T. 2532
Böhmová, B. 4761, 10165-10167
Bohn, G. W. 1858
Bohnert, H. J. 4464, 5656
Bohra, J. S. 6993
Böhringer, A. 11775
Boiça, A. L., Jr. 6951
Boichard, D. 12428
Boidron, R. 10776
Boila, R. J. 1249
Boissot, N. 6969
Boiteux, L. S. 4097, 4099, 6280, 11900
Boivin, R. 8469
Bojanowski, J. 4839
Bojilova, Z. 9068, 9075
Bojovic, S. 2115
Bojsen, K. 9710
Bokhoven, H. van 2938
Bol, J. F. 5472, 6504, 8564, 8567
Boland, R. M. 10443
Bolaños, J. 3748, 7952-7954
Bolarín, M. C. 7229
Boleda, P. I. 6264
Bolle, C. E. H. 8310
Boller, T. 3278, 3283, 3455, 5466
Bollich, C. N. 1516, 8032, 10343
Bollich, P. K. 386, 1517
Bollini, R. 2885
Bollon, H. 2049
Bolognini, G. 4026
Bolte, L. C. 3585
Bolton, A. T. 7961
Bolyard, M. G. 3894, 4390
Bomme, U. 13360-13361
Bommineni, V. R. 4371
Bompard, J. M. 11133
Bon, H. de 7188
Bon, M. C. 6540
Bóna, L. 3647, 4722, 10064
Bonas, U. 3084
Bonciarelli, U. 4704, 10095
Bond, D. A. 4978, 8169
Bond, J. E. 1697, 2266
Bond, R. S. 2007
Bond, S. 7525
Bondar', I. S. 6080
Bondari, K. 3752
Bondesson, L. 4370
Bondt, A. de 10718
Bonen, L. 8804, 10079-10080, 13320
Bonenberger, J. 10201
Bones, A. 1933
Bones, A. M. 3565, 4583
Bonetti, A. 2888
Bonga, J. M. 8650
Bongard-Pierce, D. 9046-9047
Bonhomme, R. 5972
Bonhomme, S. 9665
Bonierbale, M. 2952
Bonierbale, M. W. 8282
Bönig, I. 4301
Bonkoungou, S. 3248
Bonman, J. M. 7002, 12768
Bonnard, G. 5857
Bonneau, L. 4397
Bonnet, A. 1897, 5305, 11955
Bonnier, F. J. M. 10650
Bonnot, F. 13154
Boogerd, F. C. 7366
Booij, H. 1801, 1803
Bookum, W. M. ten 6576
Boomsma, D. I. 11233
Boon, J. J. 13228
Boonkerd, N. 6225
Boora, K. S. 518
Boote, K. J. 6163
Booth, J. R., Jr. 1154
Booth, R., Jr. 13122
Booy, G. 4452, 9251
Bopaiah, M. G. 6398
Boppenmaier, J. 3713, 9051, 10246, 11433, 11435
Bora, G. C. 1838, 4081
Bora, L. C. 5078
Borah, B. K. 8524
Borasio, E. 2494
Borchardt, D. C. 2659
Bordács, S. 7445
Bordoloi, D. N. 7549
Bordoloi, N. D. 809
Borello, U. 665
Borgat, C. 2955
Borgen, L. 11060
Borges, G. 4977
Borges, V. E. L. 7180, 10619
Borghi, B. 164, 1251, 1280, 2422, 3620, 4649, 4652
Borgmann, K. 6232, 10577
Borić, B. 2688
Borikar, S. T. 2715-2716, 3772
Borisenko, E. Ya. 97
Borisjuk, L. 8256
Borisjuk, N. 8256
Borisov, A. Y. 5056
Borisov, A. Yu. 5056
Borisyuk, V. A. 5431
Borkovec, V. 11322
Borkowska, H. 12776
Borle, U. M. 10329, 10977
Bormotov, V. E. 7380
Borne, F. D. de 10926
Börner, A. 5939, 10101, 12530
Börner, T. 4762, 10163, 10242, 12468, 13186
Bornman, C. H. 122
Bornman, J. F. 4280
Boroa-Flores, J. 6811
Borole, D. B. 4325
Borole, D. N. 4326, 6519, 10974
Borowiecki, J. 11645
Borozan, P. A. 4808
Borralho, N. M. G. 5524
Borrell, A. K. 1291
Borriès, C. 3635
Borrod, G. 7405
Borschel, H. 2595
Bort, J. 12605, 12608
Borys, M. W. 748, 5242-5243
Bos, I. 3461, 3538
Bos, K. D. 5008, 5012
Bos, L. 6115, 8315
Bos, R. 13390
Bosc, J. P. 3248
Bosch, D. 8802
Bosch, J. 9634
Bosch, J. van den 1661, 7055
Bosch, L. 1456, 11474
Boschelle, O. 10874
Bosemark, N. O. 9, 115, 1081, 13421
Bosford, K. E. 3470
Bošković, J. 2551, 4743, 8938, 12571
Bošković, M. 2551, 4743, 8938, 12571
Bosland, P. W. 4083, 4086, 4094, 4101, 8355-8356, 8360, 8363, 9557, 10694
Bosman, M. 7757, 9255
Bosque-Pérez, N. A. 9160, 11507
Bosque-Vega, A. 3035
Bossinger, G. 3620
Bostan, S. Z. 13048
Bostock, P. D. 4465
Bostock, R. M. 10576
Botella, J. 10010
Botella, J. R. 8225
Botella, M. A. 5171, 9547
Botes, D. P. 13335-13336
Botez, C. 10438, 10441
Bothmer, R. von 3886, 7841, 10181, 12800
Botsford, L. W. 93
Botta, R. 778
Botterman, J. 6084
Botti, C. 13086
Bottin, A. 6279
Bottino, P. J. 1699
Bottrell, D. G. 2727
Boubaker, M. 250
Boubals, D. 5297, 7292, 11998
Bouchán-Cálix, A. L. 10255
Bouchard, R. A. 3743, 9020-9021, 9024
Bouchereau, A. 13132
Bouchez, D. 7625
Boudet, A. M. 7441, 8588, 9780, 12184, 13228
Boudreaux, J. E. 602, 754
Boudry, P. 2032, 5433, 13189
Boufford, D. E. 2408
Bougourd, S. M. 11859
Bouharmont, J. 1242, 12115, 12562
Bouhssini, M. E. 6803-6807
Boujghagh, M. 7349
Boukema, I. W. 7318
Boula, R. 7188
Boulay, M. 5624
Boulet, J. C. 7293
Boulidard, L. 1940
Boulter, D. 5213, 8183
Boulton, M. I. 2670
Bounejmate, M. 7052
Bouquet, A. 3162, 3166
Bourdeix, R. 3232, 6370, 6383, 6386, 12071, 13154
Bourgeois, W. J. 754
Bourguignon, J. 1731
Bourland, F. M. 4322-4323, 8574
Bournival, B. 7035
Bournoville, R. 11669
Bourquin, J. C. 5295
Bourrier, M. 6903
Boursiquot, J. M. 10789
Boury, S. 7198
Bourzeix, M. 10792
Bousquet, J. 3184, 3339-3340, 5555, 10049
Boussaïd, M. 12811
Boussienguet, J. 12017
Boutin, B. 5559
Boutin, F. 9904
Boutin, S. 12826
Boutin, S. R. 6144
Bouton, J. H. 1239, 6079, 10400
Boutry, M. 6671, 8540, 11733
Boutsalis, P. 2647
Bouverat-Bernier, J. P. 1058
Bouvet, A. 6556
Bouvier, F. 10692
Bouvier, L. 8393
Bouvier-Durand, M. 7630
Bouwkamp, J. C. 9489, 10506
Bouwmeester, H. J. 9933
Bouzerzour, M. 1364
Bouzinac, S. 11579
Bovi, V. 4272, 5307
Bovkis, E. N. 4645
Bowden, G. 12936
Bowen, B. 9028
Bowen, B. A. 3750
Bowen, C. 3247
Bower, R. 2006
Bowers, J. E. 5286
Bowler, C. 6084, 6495, 9544
Bowley, S. 8098
Bowley, S. R. 1655, 1658, 6084, 12785
Bowman, A. M. 6085-6086
Bowman, C. M. 6341

Bowman, D. 9010
Bowman, D. T. 7583
Bowman, K. D. 5481
Bowman, W. D. 4932
Bowra, S. 10836
Boxus, P. 1890, 2252
Boyacı, S. 9739
Boyce, P. 5701
Boyd, C. 1116
Boyd, L. A. 5923, 10190
Boyd, P. A. 7120
Boyer, C. D. 307, 10585, 11919
Boyer, N. 4469, 4471
Boyer, S. K. 3754
Boyhan, G. E. 1859, 4108, 8371, 13037
Boylan, M. 7639
Boylan, M. T. 10022
Bozec, M. 2946, 2959
Bozhilova, Z. 9068, 9075
Bozhok, G. V. 10207
Bozzini, A. 3972, 5864
Braam, J. 83
Braatne, J. H. 8600
Brabant, P. 6696, 12531, 12551
Bracco, F. 11008
Bracey, M. H. 11203
Bracher, D. 12286
Bradbury, J. H. 7179
Bradley, D. 4583, 5350
Bradley, D. J. 2196
Bradley, J. 1459
Bradley, J. M. 5632
Bradley, M. 10025
Bradner, N. R. 1695
Bradová, J. 209, 1355
Bradshaw, J. E. 613, 8258, 8272, 8275-8276, 9449, 11789, 11805, 11807, 12325, 12945
Brady, C. 2415
Brady, C. J. 10758
Braeckel, E. van 8612
Braga, D. P. V. 7374
Bragin, A. 4289
Brahma, R. N. 2558
Brahmachari, S. K. 12377
Braithwaite, A. F. 7636
Braithwaite, M. J. 3254
Bramel-Cox, P. 7976
Bramel-Cox, P. J. 2714, 9181, 11280, 11518, 12690
Bramley, P. M. 10668
Brammall, R. A. 3069
Brammar, W. J. 6475
Branch, W. D. 3564, 9688
Branchard, M. 713, 4040
Brandão, M. 11069, 11689, 11692, 12201
Brandenberger, L. P. 10648
Brandenburg, E. 10242
Brandenstein, C. 12648
Brandham, P. E. 9883
Brandle, J. E. 900, 1122, 6508, 8507
Brändle, R. 12143
Brandolini, A. 2999, 11817
Brandstädter, J. 8333
Brandt, A. S. 4425, 5648
Brandt, J. 5925
Brandt, K. 3900
Brandt, L. 9571
Brandt, P. 62, 10001, 12405
Brandt, R. N. 7332
Brandt, T. 6433
Brangeon, J. 2890
Branlard, G. 3635, 6747, 7733, 7773
Brann, D. E. 8949
Bransby, D. I. 6725, 6881, 6915, 7077
Brar, D. S. 2373, 2727, 7247, 7305, 8016, 8057, 11169, 12380
Brar, G. S. 1768, 7100, 12077
Brar, H. S. 567-568, 6206
Brar, J. S. 7984
Brar, K. S. 11763, 11862
Brar, L. S. 3666
Brar, S. P. S. 576
Brattig, T. 11443
Brauen, S. E. 4412
Brault, M. 1144
Brault, V. 5474
Braun, H. 12225
Braun, H. P. 9453, 10674
Braunová, Z. 12148
Bray, E. A. 1840, 5729, 10553
Bray, R. A. 1652, 4962, 8126, 10433
Braz, L. T. 640
Brazil, Empresa de Pesquisa Agropecuária de Minas Gerais 5075
Brazil, Empresa de Pesquisa Agropecuária e Difusão de Tecnologia de Santa Catarina S.A. 141
Brazil, Instituto Agronômico 12482, 12992, 13095
Brazil, Instituto Agronômico de Campinas 4675, 4882, 4985, 5273, 5405
Brazil, Instituto Agronômico do Paraná 4647
Brazil, Universidade Federal de Viçosa 5075
Breadmore, K. 12807
Brears, T. 5047, 6172
Brede, A. D. 4412, 11053-11054
Bredemeijer, G. M. M. 10399
Brederode, F. T. 6504
Breedt, H. J. 12011
Breen, J. P. 3386
Breese, E. L. 89
Brégeon, F. 11981
Brégeon, M. 4226
Breidenbach, R. W. 10254
Breitenberger, C. A. 10466
Bremer, B. 2402
Bremer, K. 11256
Brenes, A. 5053
Brengman, R. L. 1480-1481, 1487, 2713
Brennan, J. P. 7590, 8764
Brennan, P. S. 160, 12524
Brennan, R. M. 13074
Brenner, M. 7644
Brenner, M. L. 8324, 8332
Brennicke, A. 62, 1152, 4418, 8670, 8672, 9980, 10001, 10567, 10569, 11058-11059, 11135, 11803, 12405
Bressan, M. 12056
Bressan, R. A. 3430, 3475, 4861, 5102, 5450, 9547, 9922, 12137, 13234
Bressani, R. 1448
Bretó, M. P. 11891
Brettell, R. I. S. 1293, 7694, 10060
Brettschneider, R. 2424, 4681
Breugem, G. 12260
Breusegem, F. van 12757
Brewbaker, J. L. 8127, 9317-9318, 11497, 12203
Brewer, G. J. 9682
Brewer, H. 602
Brewin, N. J. 6191
Brewster, J. L. 13415
Breyne, P. 11237, 12130
Briarty, L. G. 7636
Briceño, M. 4181
Brick, M. A. 9396
Brickell, C. D. 6589
Bridges, W. C. 6124, 10492
Bridson, D. M. 10921
Brien, L. A. 8112
Briggle, L. W. 4785
Briggs, K. G. 10122-10123
Briggs, S. 7897, 7956, 7967, 9073, 9092, 11428
Briggs, S. P. 11498
Briggs, W. R. 10013
Brigneti, G. 6502
Brim, C. A. 9355
Briner, H. U. 11622
Bringhurst, R. S. 1906
Brink, G. E. 6088, 8117
Brink, S. 4816, 9524
Brinker, A. M. 8517
Brinkmann, H. 3562
Briones, A. 5471
Briquet, M. 11733
Brittini, P. 8342
Britvec, M. 6892
Broadbent, P. 12016
Broadwater, A. H. 5956
Brock, D. 7909
Brockwell, J. 522
Broday, L. 7220
Brodelius, P. E. 8320
Brodie, B. B. 9451
Broek, H. W. J. van den 6276
Broekaert, W. F. 1114, 10718
Broekman, R. 1815
Broer, I. 9973, 11681
Broers, L. H. M. 3662, 6790, 8935
Broglia, M. 10219
Broglie, K. 33, 5741
Broglie, R. 33, 5741
Broido, S. 6586
Brokenshire, T. 8308
Brommonschenkel, S. H. 4075
Bromová, P. 2491-2492
Bronner, R. 7883, 13223
Bronshteĭn, A. I. 7095
Bronson, M. R. 3362
Brooker, M. I. H. 10994
Brookes, B. 3916
Brookfield, J. F. Y. 6660
Brookfield, M. 1976
Brooks, C. B. 10488
Brooks, L. 11826
Brooks, S. J. 4143
Brooks, W. S. 4780
Brose, E. 1169, 11228
Brothers, M. E. 6160
Brouard, J. P. 6719
Brouder, S. M. 12163
Broughton, W. J. 10549
Brouillet, L. 6718
Broun, P. 668
Brouwer, H. 6628
Brouwer, J. B. 512, 10532, 11778, 11782
Brouwer, Y. J. C. M. 3385
Browder, L. E. 8938
Brown, A. H. D. 1177, 1179, 2257, 2581
Brown, B. D. 3588
Brown, C. M. 4784
Brown, C. R. 1793, 1796, 5097, 6244, 8245, 10608
Brown, D. 5707
Brown, D. C. W. 476, 4034, 7086, 12809
Brown, D. E. 11662
Brown, D. J. F. 8567
Brown, E. A. 3952
Brown, G. G. 830, 5362, 8804
Brown, I. 3084
Brown, J. 2947, 2973, 8276, 10604
Brown, J. K. M. 289, 5923, 10190
Brown, J. S. 8856
Brown, J. W. S. 2052, 3485, 9986
Brown, P. D. 12641
Brown, P. T. H. 1129
Brown, R. C. 13377
Brown, R. H. 1239
Brown, S. 7050, 8100
Brown, S. A. 8404
Brown, S. C. 5624, 6695
Brown, S. K. 733, 8388
Brown, S. L. 758
Brown, T. F. 9262
Brown, W. M. 4641
Browne, G. T. 3121
Brownie, C. 7583
Browning, K. S. 184, 5856, 11202, 11309
Browse, J. 1154, 4064, 5781, 11191, 12417
Brubaker, C. L. 949, 4338, 8573
Bruce, M. R. 2834
Bruce, W. B. 5930
Brückner, F. 4751
Bruckner, P. L. 176, 11371
Bruederle, L. P. 3144, 13078
Bruening, G. 5693
Bruggen, P. van der 3024
Brugidou, C. 10047
Brugliera, F. 3412, 4437, 4440
Bruijn, F. J. de 486, 8122, 12822
Bruijn, S. M. de 6178, 8193, 11760
Bruins, M. B. M. 4731
Bruinsma, T. 13359
Brummitt, R. K. 5826
Brune, W. 7180
Bruneau, A. 3981
Brunel, D. 6357, 8497
Brunelle, A. 1015, 3416
Brunet, F. 5001
Brunet, J. 4444
Brunke, E. J. 7508
Brunke, K. J. 5989
Brunklaus-Jung, E. 9051, 11435
Brunner, H. 1186, 7246
Brunner, R. 6318
Bruno, O. A. 11524-11525
Brunori, A. 4691, 5864, 10219
Bruns, R. F. 2447
Brusa, P. 8191
Brusco, P. 9399
Brush, M. D. 7370
Brush, S. B. 11, 12651
Brussel, T. van 2266
Brusslan, J. A. 5771
Bruun, L. 1209
Bruyn, M. H. de 5651
Bryant, J. A. 4633, 5709
Bryce, J. H. 5709
Bryde, N. 8436
Bryn, D. F. 12638
Bryngelsson, T. 11394
Brzobohaty, B. 312
Bu, X. L. 1287
Buana, L. 6473
Buanec, B. le 1108
Bubar, J. S. 7834
Bucci, G. 12219
Bucciaglia, P. A. 9718
Buchanan-Wollaston, V. 13134
Bucher, M. 2229, 12143
Buchheim, J. A. T. 6571
Büchting, A. J. 3270
Buchtmann, H. G. 9839
Buckley, D. J. 12809
Buckley, K. 4576
Buckner, B. 9042-9043, 9115
Budar, F. 9665
Buddendorf, C. J. J. 8193
Buddenhagen, I. W. 9160
Budding, D. J. 2991, 7168
Bude, A. 12595
Budevich, G. V. 1260
Budiarto 5404
Budin, K. Z. 11831
Budovskiĭ, N. D. 5429
Būdvytytė, A. 2878
Buehler, R. E. 6523
Bueno, M. 3975
Bueno, M. A. 2114
Buffard-Morel, J. 4241
Bugos, R. C. 5412, 8511
Bui, A. Q. 4415
Bui Ba Bong 1535, 3799
Bui Chi Buu 1512, 1561-1562, 1565, 1600
Buiatti, M. 3109, 6277, 8342, 8344
Buiel, A. A. M. 7368
Buiel, H. 11734
Buirchell, B. J. 7063
Buising, C. M. 7600
Buivids, K. 3397
Bujard, H. 8544
Bujauskas, A. 2950
Bulder, H. A. M. 721-722
Buldgen, A. 8085
Bulk, R. W. van den 1144, 3420, 4073
Bull, J. K. 2411, 8509
Bullen, M. R. 12799
Bullitta, S. 11629
Bullock, B. L. 2161

Bullock, D. G. 321, 9361, 12668
Bullock, J. M. 10412
Bulman, M. 8821
Bulman, P. 5903, 11389
Bulmer, M. G. 10395
Bülter, H. 59
Bumazhnyĭ, B. E. 6080
Bunders, J. F. G. 6628
Bunin, M. S. 11864
Bunkers, G. 1403
Buntin, G. D. 176
Buraczewska, L. 4959, 5011, 10523
Buraczewski, S. 5011
Burak, M. 11980
Burba, M. 8529
Burbidge, A. 7210
Burch, J. M. 4240
Burch, L. R. 603, 2962
Burchi, G. 3394
Burd, J. D. 2443, 8971
Burd, M. 7671
Burdon, J. J. 6652
Burdon, J. N. 8442, 9615, 10764, 10801
Burdon, R. D. 8636
Burdun, A. M. 10120
Bureau, T. E. 9981
Burek, J. 12590
Burenin, V. I. 2027, 13191
Burg, K. 2983
Burg, W. J. van der 75
Burge, G. K. 9869
Burger, K. 6296
Bürger, R. 8839, 8848
Burgess, D. 9040
Burgess, I. P. 5531
Burgess, L. W. 2538
Burgess, P. J. 6465-6466
Burgess, R. 451
Burghoffer, A. 6195
Burgoon, K. G. 1449
Burgos, L. 3131, 6300, 13059
Burias, N. 10487
Burikam, S. 8514
Burkard, G. 5986, 10504
Burke, J. I. 2036, 8530
Burke, T. 9990
Burkey, K. O. 7844
Burkhard, L. 9674
Burkhardt, P. K. 2456, 10378
Burkhart, L. F. 6571
Burkhart, S. 11516
Burma, P. K. 12377
Burman, U. 12926
Burmeister, D. M. 732
Burmester, C. H. 2096
Burmistrov, L. A. 4146
Burn, J. E. 7649
Burner, D. M. 5408, 5413, 8521
Burnet, M. W. M. 2796
Burnett, L. 13138
Burnett, P. A. 3683, 8967
Burnett, R. J. 3425
Burnham, C. R. 9003, 9041, 9057, 9072, 10257
Burnham, K. P. 3030
Burnos, T. N. 6760
Burnquist, W. L. 3259
Burns, A. T. H. 12322, 12324
Burns, D. J. W. 1909
Burns, E. E. 4050
Burns, J. A. 4260, 6482, 7392
Burns, J. C. 5999, 7946
Burns, V. J. 1786
Burny, A. 1890
Burow, M. D. 3961, 11234
Búrquez, A. 979
Burr, B. 3722, 10245
Burr, F. A. 3722
Burr, K. E. 3366
Burr, T. J. 13087
Burrell, M. M. 12319
Burris, E. 9758
Burris, J. S. 4826
Burrows, R. L. 11371
Burrows, V. D. 2641, 7863
Burrup, D. E. 10155
Burrus, M. 13144
Burson, B. L. 2811
Bürstmayr, H. 2525, 2543
Burtin, D. 5443
Burton, G. W. 1636
Burton, J. W. 3945, 6136, 7089, 7583, 9322, 9355-9356
Burton, K. S. 4503, 11125
Burton, R. 6579
Burton, R. L. 2443, 3665, 8971
Burzyński, G. 13255
Buscaroli, C. 3106
Busch, C. 4816
Busch, L. 9669, 12367
Busch, R. H. 3616, 8884
Busch, W. 275
Büscher, N. 4158
Busey, P. 3907
Bush, A. 12633
Bush, E. J. 11653
Bushnell, W. R. 7861
Bushuk, W. 230, 2507
Businelli, S. 9281
Buso, J. A. 5110
Busolo-Bulafu, C. M. 3242, 13166
Busri, N. 9187
Buss, C. R. 12828
Buss, G. R. 526, 8164, 9375
Bussard, M. L. 9513
Busscher, J. 12265
Busscher, M. 3415, 5749
Bustin, N. 1107
But, P. P. H. 7044
Butcher, D. 8839
Butcher, P. A. 9936
Butcher, T. B. 5577
Butenko, R. G. 5668, 7414, 12536
Büter, B. 3577, 9122
Butler, D. G. 2575
Butler, D. R. 363, 7980
Butler, L. G. 4861, 12203, 12374, 12693
Butnaru, G. 6728
Butôt, R. P. T. 3405, 4434, 12259
Butsko, E. V. 2059
Butt, A. 1617
Butt, M. A. 411, 439, 1620, 6048, 6974, 9235
Butt, N. M. 3615
Butt, S. J. 13097
Butterfield, J. E. 10745
Buttery, B. R. 8179, 12880
Buu, R. H. 11534
Buxton, D. R. 6940, 7023, 12311
Buyser, J. de 3625, 6743, 8897
Buzby, J. A. 5771
Buzovkina, I. S. 3032-3033
Buzzell, R. I. 6135, 8162, 9349, 9374
Buzzini, P. 5553
Bychkova, V. A. 3271, 5432
Byerlee, D. 3582, 8874, 12480
Byrne, D. H. 5931, 8411, 13100
Byrne, P. F. 7877, 11444
Byrne, T. 4427
Byrne, T. E. 6597
Byrne, T. G. 5638, 9862
Byth, D. E. 3583-3584, 3950
Caballero, A. 7
Cabané, M. 986
Cabangon, R. 3861
Cabanne, F. 7820
Cabasson, C. 13093
Cabauatan, P. Q. 1612
Cabo, M. M. 12291
Caboche, M. 1156, 4295, 6481, 7607, 7625, 8554, 10931, 11186, 12420
Caboni, E. 8454
Cabrera, A. 3578
Cabrera, J. 8441
Cabrera, R. M. 1863, 8373
Cabrera, V. M. 8549
Cabrera y Poch, H. L. 74
Cabunagan, R. C. 1611, 1613, 3861, 8053
Cacace, J. E. 9470
Caccia, R. 2994, 9268
Cacciola, S. O. 4245
Cachiţă-Cosma, D. 515
Cadic, A. 4405
Cadle, M. M. 7031, 12520
Caemmerer, S. von 931, 13229
Caetano, V. R. 4674
Caetano-Anollés, G. 3920, 3948
Caha, C. A. 6129
Cahaner, A. 8898
Cahill, D. M. 5534
Cahoon, E. B. 8745
Cai, H. D. 7310
Cai, H. Z. 6462
Cai, J. Y. 3236
Cai, L. W. 9737, 12161
Cai, M. 12039, 13130
Cai, Q. 7298, 12799
Cai, Q. G. 8432
Cai, Q. H. 2746
Cai, Q. S. 11319
Cai, R. Z. 11912
Cai, S. X. 3820
Cai, W. J. 6034, 10371
Cailliez, B. 11360
Cairns, S. 9874
Caissard, J. C. 7440
Cajiao, C. 3960
Cakmak, S. 8913
Çakmakli, Ü. 7088
Caldas, L. S. 959
Calder, D. M. 8852, 9844
Calderini, D. F. 10092
Calderón, A. 8123
Calderón A., H. 2003
Calderon-Urrea, A. 3543
Caldiz, D. O. 10565
Caldwell, C. 178
Caldwell, C. R. 8374
Caldwell, W. D. 9750, 9758
Calfee, A. J. 1017
Calhoun, D. S. 8918, 9758
Calie, P. J. 6564
Caligari, P. D. S. 2999, 5927, 7064, 8258, 9308
Calip-DuBois, A. J. 10456
Çalışkan, F. 9471
Calitz, F. J. 10680
Callahan, A. 4140
Callahan, A. M. 4141, 9588, 13068
Callahan, F. E. 3317
Callaway, D. J. 5613-5614, 7573
Callaway, M. B. 346
Calle, F. 5126
Callewaert, D. 11845
Callimassia, M. A. 2376
Callow, J. A. 3410-3411
Callow, P. W. 1903
Cals Gaspar, J., Jr. 10619
Calvar, D. J. 6272
Calvert, J. R. 4290
Calzolari, A. 3063
Camadro, E. L. 8318
Camara, B. 10692
Câmara, F. L. A. 8291
Câmara Machado, A. da 5467
Câmara Machado, M. L. da 5467, 13058
Camarena Mayta, F. 8177
Camargo, A. P. de 4272
Camargo, C. E. de O. 3650-3651, 4739, 6741
Camargo, L. E. A. 13124
Čambalová, H. 5580
Cambron, S. 8946
Cameron, A. G. 1679
Cameron, D. F. 10443
Camerón, J. S. 1902
Cameron, L. 1014
Cameron, R. K. 1165
Cameron-Mills, V. 3677
Camilleri, C. 7625
Camp, W. van 6495, 8782, 9951
Campanile, R. G. 1328
Campbell, A. B. 7723-7724
Campbell, A. K. 1143
Campbell, C. G. 493, 8124
Campbell, G. L. 1386
Campbell, J. J. N. 11670
Campbell, K. G. 7392, 9732
Campbell, K. W. 4846
Campbell, L. 5338
Campbell, L. C. 7506
Campbell, L. D. 1249
Campbell, L. G. 13187
Campbell, M. M. 13228
Campbell, R. K. 2149, 2569
Campbell, T. A. 8105, 9286, 9289
Campeau, N. 6262
Campell, B. R. 8172
Camper, H. M., Jr. 12828
Campion-Bourget, F. 8743
Campo-Dall'Orto, F. A. 4142, 5259, 5307
Campos, J. P. de 3061
Campos, L. P. 11688
Campos Vidal, B. de 5142
Campostrini, F. 5287
Can, C. 5320-5321, 11228
Canaani, O. 3642
Canada, Atlantic Corn Hybrid Evaluation Committee 3707, 7878
Canal, L. de la 12059
Canalejo, A. L. 3597
Canals, J. M. 12661
Cañas, L. 13008
Cande, W. Z. 1411, 3738, 9056, 11449
Candela, M. E. 8361
Candelier-Harvey, P. 13235
Candilo, M. di 3063
Candresse, T. 5474
Cangi, R. 13048
Canhoto, J. M. 6332
Canini, A. 8705
Cannata, F. 9646
Cannell, M. E. 3670
Cannon, G. C. 3941
Canova, A. 3109, 9559
Cantin, D. 5591
Cantliffe, D. J. 653, 1808
Canto, M. W. do 10485
Cantone, F. 4652
Cantwell, M. I. 5157
Canut, H. 9780
Cao, J. 37, 13105
Cao, J. L. 12774
Cao, J. M. 9210
Cao, K. M. 398, 1277
Cao, L. Y. 9205
Cao, M. L. 10960
Cao, M. Q. 10642
Cao, W. 9800
Cao, W. B. 11517
Cao, W. G. 196, 3609
Cao, Y. S. 10336
Cao, Y. W. 73
Cao, Y. Y. 2556
Capel, J. 12409
Capell, B. 3761
Capellades, M. 3710
Capesius, I. 13123
Capitant, S. A. 5989
Čapková, D. 11988
Čapková, V. 2064, 12140
Caplan, A. B. 8012, 12757
Capman, W. C. 975
Capone, I. 5758, 13211
Caponetti, J. D. 6597
Capossela, A. 8108
Capote, M. 3263
Cappadocia, M. 1144, 2203, 3553, 8243, 11815, 12937
Cappellini, P. 11975
Capper, B. S. 6836
Cappiello, P. E. 12230
Caprari, C. 5022
Capuccella, M. 7554
Caradus, J. R. 1661-1662, 4951, 7055, 7058, 9296
Carballo, B. M. 1823
Carballo Carballo, A. 536, 4717
Carberry, P. S. 1477-1479
Carbone, S. 5086
Carbonell, E. A. 11891, 13116
Carbonero, P. 274, 1341, 2427, 3479, 5482
Cardarelli, M. 5758, 13211
Cárdenas Navarro, R. 767

Cardi, T. 610, 8259, 10572
Cardon, G. 5966
Cardon, G. H. 919, 7904
Cardona, C. 2901, 7104
Cardone, A. M. 12056
Cardoni, M. 10753-10755
Cardosa, A. I. I. 11921
Cardwell, K. F. 8222
Caredda, S. 6081
Carelse, O. 8171
Caretto, S. 4316, 12948
Carey, E. E. 12952
Carijo, I. V. 1827
Carland, F. M. 5184, 10677
Carlisle, S. 8248
Carlot, D. 3137
Carlson, C. E. 8648
Carlson, G. R. 11371
Carlson, R. M. 5247
Carlson, R. W. 2266
Carlson, T. J. 1154, 13122
Carlson, U. 9855
Carlson, W. R. 3736
Carlton, G. P. 12559
Carmeli, D. 7556
Carmen Carosio, G. del 4673
Carmona, A. 4977, 9390
Carmona, M. J. 3479, 8953, 12478
Carneiro, J. E. S. 1718
Carneiro, M. 13201
Carneiro, M. F. N. 5659
Carnevali, G. 1029, 4456-4457, 11092
Carney, S. E. 2200
Caro, M. 4071
Caro Ros, M. A. 3175-3176
Carol, P. 2360
Carotenuto, R. 5457-5458
Carpenter, C. D. 7654
Carpenter, M. O. 9892
Carpenter, R. 2196, 3406-3407, 3409, 6580, 10041-10042
Carpenter, T. B. 7615
Carpentier, B. 11471
Carputo, D. 5086, 9459, 11820
Carr, D. E. 1221
Carr, M. K. V. 6465-6466
Carrasco, J. L. 8194
Carré, S. 5001
Carre, S. 8167
Carreel, F. 5312
Carrega, G. 3175-3176
Carrer, H. 4296
Carrera, A. 1965
Carrijo, I. V. 1722
Carrillo, J. M. 4713
Carrillo, N. 4558
Carrillo, P. 2022
Carrington, C. M. S. 1836
Carriquiry, A. L. 6142
Carroll, B. 4044
Carroll, B. J. 522, 7210, 7231
Carroll, B. L. 13069
Carroll, C. P. 4001, 8261
Carroll, K. L. 1155
Carroll, S. B. 2181, 8678
Carron, T. R. 1675, 8121
Carrouée, B. 5055
Carrow, R. N. 9859-9860
Carrubba, A. 3192
Carson, M. J. 7484
Carson, M. L. 4843, 6908, 10295
Carson, S. D. 7484
Carson, S. H. 1714
Carswell, G. K. 2705
Carta Trimestral - CENICAÑA, Centro de Investigación de la Caña de Azúcar de Colombia 12101
Cartea, M. E. 11512
Carter, C. D. 6282
Carter, J. V. 1153, 2974
Carter, P. R. 5978-5979
Carter, T. E., Jr. 3945, 4994, 9322
Carthew, S. M. 7501
Cartwright, B. 2513
Carusi, M. V. 9382
Carvalho, A. 5442
Carvalho, A. M. de 7463
Carvalho, A. P. de 9778
Carvalho, C. R. de 4822, 7908
Carvalho, F. de 6479
Carvalho, F. I. F. de 6862, 6864, 12532
Carvalho, M. T. V. 6976
Carver, B. F. 214, 2447, 3608, 3647, 4722, 11330
Cary, A. J. 3939
Casacuberta, J. M. 2058
Casado, R. 12216
Casadoro, G. 1340, 9589
Casal, C. 8015
Casal, J. J. 11398, 11935
Casamayor, A. 4587
Casañas, F. 1456, 11474
Casanova, C. 1633
Casarini, B. 1688
Casas, A. M. 4861
Case, M. A. 4455, 9890
Casela, C. R. 2712, 6949
Caselli, S. 5398
Casey, M. L. 3078
Casey, R. 6180, 6183, 6193, 6631, 11751
Cash, J. N. 750
Cashmore, A. R. 3507, 5760
Casini, C. 6930
Casini, P. 9482
Caso, O. H. 6603
Caspar, T. 65, 78
Casper, M. 5959
Casper, R. 4548
Cass, D. D. 4824
Cass, L. 5354
Cassalett, C. 2002, 2022
Cassalett D., C. 12105
Casse-Delbart, F. 6666
Cassells, A. C. 4428
Casselton, L. A. 1065, 3437, 4500
Cassman, K. G. 12163
Cassol, T. 13017
Castagna, R. 3620, 12550
Castagnaro, A. 3479, 8953
Castaldo, D. 6266
Castañera, P. 5482
Castaño, F. 848
Castaño, M. 5053
Castellane, P. D. 640
Castellanet, P. 10865
Castellano, S. 8495
Caster, C. S. 1154
Castiglione, S. 3055, 8604, 11562
Castilho, A. 5843
Castillo, A. 4546
Castillo, A. M. 5899
Castillo, M. J. 12291
Castillo, R. 6306
Castillo, R. F. del 4422, 9872
Castillo-Campos, G. 12024
Castillo González, A. M. 763-764
Castillo T., N. 9328
Castiñeiras, L. 12344, 12871
Castle, L. A. 3524, 5779
Castle, S. J. 1858
Castles, C. J. 12867
Castonguay, Y. 477, 8104, 9288
Castorena-Sánchez, I. 3427
Castresana, C. 4597, 6479
Castrignano, A. M. 4162
Castro, A. M. 12631
Castro, J. L. de 4739, 5307, 6741
Castro, L. A. B. de 8766
Castro Acero, L. 475, 2833
Castro Silva Filho, M. de 8540
Castroviejo, M. 10082
Castroviejo, S. 3142
Casulli, F. 6783
Caswell, K. 4678
Català, J. 12608
Catalano, F. 695, 711
Catalini, H. 4673
Catarino, F. 9956
Catlin, P. B. 10828
Catling, P. M. 1027, 8419, 8718
Cattaneo, A. 5470
Cattaneo, M. 4676
Cattivelli, L. 2433, 7819, 7855, 10154, 11392
Caubel, G. 8141
Cauderon, Y. 3884
Causse, M. 5973, 12428
Cauvin, B. 6552
Cavalcante Alves, J. M. 10626
Cavalié, G. 2496, 8896
Cavallari, D. A. N. 12285
Cavallarin, L. 5800
Cavallaro, U. 4472
Cavallini, A. 3427, 12280
Caviness, C. E. 9321, 9339, 9345
Cawood, M. E. 10680
Cayouette, J. 9246
Cazaux, E. 6529
Cazé-Filho, J. 12823
Ceada, A. 1781
Ceballos, H. 3762, 5982
Ceballos Silva, A. P. 7280
Cecava, M. J. 9317
Ceccarelli, E. 665
Ceccarelli, M. 7028, 7509
Ceccarelli, S. 2622, 5920, 11161, 11380
Cecchini, E. 12133
Cecconi, F. 7352
Ceci, L. R. 4230, 12058
Cecon, P. R. 11700
Cedeño-Maldonado, A. 3035
Cedola, M. C. 1328
Cejas, F. 12338, 12343
Çelik, S. 5285
Celis, C. 5361
Cella, R. 6340
Cellino, M. L. 1194
Ceniza, M. S. 1975
Center, B. J. 3907
Ceoloni, C. 7796
Čeponienė, S. 2950
Ceponis, M. J. 10745
Cerda, H. 260
Cerff, R. 3562
Čergan, Z. 1691
Ceriani, M. F. 6361
Ceriotti, A. 2885
Cernaj, P. 13386
Černe, M. 6261
Černiauskas, H. 2789
Černý, J. 209, 1355, 2432, 2614, 11344
Cerović, S. 9643
Čeřovská, N. 3311
Cervantes, E. 9415
Cervantes, M. 12411
Cervigni, T. 5864
Cervone, F. 5022, 11747
Cesarini, F. 12243
Česnavičius, K. 3355-3356
Cetiner, S. 4549
Chaabane, A. B. 7049
Chaban, I. A. 3611
Chabbert, B. 12681, 13228
Chabouté, M. E. 9982
Chabrillange, N. 12067
Chadbone, D. A. 12472
Chadchawan, S. 4583
Chadha, K. L. 4165, 4171, 4175, 4518, 5700, 11134
Chadha, M. L. 696, 5192, 5204, 11862
Chadha, T. R. 4122
Chae, Y. A. 11606
Chaenwitaya, N. 10887
Chafik, M. M. 7308
Chagas, M. C. M. das 5070
Chagvardieff, P. 2967
Chahal, G. S. 1182, 2086, 2094, 2255-2256, 3324
Chahal, S. S. 237, 12702
Chai, J. H. 395
Chai, J. X. 11714
Chai, S. C. 3595
Chai, S. X. 3595
Chai, Z. H. 1290
Chaĭka, M. T. 10206
Chaiprasert, A. 4497
Chair, H. 6969
Chaisurisri, K. 7486
Chaix, J. C. 5906
Chaiyaprasithi, G. 11715
Chakrabarti, S. K. 5112, 10594
Chakrabarti, S. N. 1518
Chakrabarty, A. 2935
Chakraborty, R. 5791-5792, 8823
Chakraborty, S. 487, 10443
Chakravarti, A. 12213
Chakravarty, G. N. 13256
Chakravarty, N. V. K. 5912
Chakrawar, V. R. 7302
Chakresh Kumar 5502, 5508
Chaldecott, M. A. 4568
Chalet, C. 4949, 11622
Chalkley, D. B. 10132
Challen, M. P. 4500, 8748
Chalmers, K. J. 269, 1370, 4765, 5849, 6823, 8533, 12607
Chalukova, M. 4095
Chalupka, W. 2139
Chalupová, L. 555
Chalyk, S. T. 1427, 4823
Chamber, M. A. 485
Chamberlain, D. A. 10060
Chamberland, H. 497
Chamberlin, M. A. 8150
Chambers, J. L. 5520
Chambers, S. J. 556
Champoux, M. C. 12768
Chamshama, S. A. O. 7476
Chan, C. L. 2212
Chan, L. K. 10815
Chan, M. T. 1524
Chan, Y. K. 13106
Chan, Y. S 13375
Chanana, Y. R. 747, 4118, 5323
Chand, D. 12576
Chand, J. N. 5078
Chand, P. 9468
Chand, S. P. 4848
Chanda, D. 5904
Chandel, K. P. S. 1044, 1881, 7544, 10802
Chander, S. 4705
Chandler, D. 7661
Chandler, J. 3805
Chandler, S. F. 7286
Chandler, V. 7932, 10245
Chandler, V. L. 2675, 12665
Chandley, A. C. 5690
Chandra, A. 5772
Chandra, B. V. 1542
Chandra, D. 578, 4250
Chandra, J. 10561
Chandra, N. 10843
Chandra, R. 1787, 5099, 5101, 10584
Chandra, S. 1338, 8197, 9410, 12351
Chandra Gupta 5535
Chandrababu, R. 7150
Chandraker, P. K. 3638
Chandramohan, N. 616
Chandramorhan, S. 7793
Chandrasekhar, T. R. 10987
Chandrashekar, A. 12695
Chandrashekar, M. 12921
Chandy, K. C. 9655
Chaney, W. R. 9317, 12203
Chang, B. K. W. 9928
Chang, C. 76
Chang, C. F. 13204
Chang, C. Y. 9363
Chang, D. D. 7545, 12289
Chang, F. C. 9233
Chang, H. H. 1524
Chang, H. T. 3377, 4400
Chang, K. C. 10503
Chang, L. S. 11982
Chang, M. M. 8273
Chang, M. T. 11460
Chang, P. F. L. 12137, 13234
Chang, R. Y. 3730, 3768
Chang, R. Z. 10454, 11696, 11707
Chang, S. C. 11534
Chang, S. J. 1603
Chang, S. S. 7622
Chang, S. T. 4499, 4508, 5682

Chang, T. T. 8770, 11152, 12706
Chang, W. C. 5667, 12283
Chang, W. D. 12289
Chang, X. M. 925
Chang, Y. J. 6310
Chang, Y. S. 6438, 7545, 12289
Chang, Z. R. 6119
Chanprasert, W. 9340
Chanselme, J. L. 7407, 8575
Chanson, B. 5340
Chantaranothai, P. 7470
Chantereau, J. 12694
Chantre, G. 6542
Chanut, F. A. 1698
Chao, C. H. 2772
Chao, C. N. 3840
Chao, L. 1221, 4612, 11450
Chao, S. 7880, 7893, 7905, 12662
Chao, T. B. 6592
Chaparro, J. X. 7279
Chapdelaine, Y. 10079
Chaperon, H. 6552
Chapin, F. S., III 30
Chapman, C. G. D. 12999
Chapman, D. F. 4952, 7056
Chapman, G. P. 9187, 9272, 11127
Chapman, G. W., Jr. 8402
Chapman, K. A. 6220
Chapman, L. S. 890
Chapman, S. C. 1986-1989
Chapman, S. N. 6502
Chapoutier, L. I. 8664
Chaput, M. H. 2954
Charbonnier, C. 13201
Charcosset, A. 1406, 12428
Chard, J. 8308
Charest, P. J. 2148, 2326, 6554-6555, 8598, 8765, 12224, 13320
Charjan, S. K. U. 9341
Charles, D. J. 8742
Charles, T. 8800
Charleston, M. A. 5820
Charlesworth, B. 1206, 4611, 4626, 6688-6689
Charlesworth, D. 1206, 4626, 6688, 7674, 12446
Charlot, F. 8303
Charlot, G. 3183
Charlwood, B. V. 10988
Charmet, G. 456, 1628, 3877-3878, 8066-8067, 10395
Charng, Y. C. 10658
Charpenteau, J. L. 1156
Charrier, A. 904, 1876, 8287, 10618, 10918-10919
Charters, Y. 841
Chartier, Y. 10047
Chartier-Hollis, J. 11050
Chartier-Hollis, J. M. 4131
Chartisathian, J. 4152
Charumathi, M. 1767
Chas, É. 7029
Chasan, R. 2383, 9964, 10842
Chase, A. R. 3400
Chase, C. D. 5024
Chase, K. 2853
Chase, M. W. 2398-2400, 2403, 2405, 5616, 10049, 11256
Chastagner, G. A. 8607
Chastain, T. G. 2568
Chat, J. 5305
Chatfield, J. A. 2169
Chatfield, M. 4986
Chatrath, R. 2520, 6764, 7788
Chatterjee, A. 5419, 6526
Chatterjee, S. 5964
Chatterjee, S. D. 5347
Chatterjee, S. R. 7852
Chatterton, N. J. 6735
Chattopadhyay, N. 6337, 10835
Chattopadhyay, S. B. 3335
Chattopadhyay, T. K. 11067
Chau, N. M. 8033
Chaubal, R. 11535
Chaubet, N. 9982, 12398
Chaudhari, A. N. 889
Chaudhari, D. R. 5101
Chaudhari, P. N. 4326, 6519, 10974
Chaudhary, B. D. 1750, 1955, 2923
Chaudhary, D. R. 5099
Chaudhary, H. K. 1306, 2459, 6222
Chaudhary, L. B. 4960
Chaudhary, M. A. 4220
Chaudhary, M. F. 1374
Chaudhary, M. T. 12814
Chaudhary, R. C. 3796, 3825, 7997
Chaudhary, R. G. 575
Chaudhary, V. K. 3357, 10743
Chaudhuri, S. 9089, 10271
Chaudhury, A. 6967
Chaudhury, A. M. 3515, 3519, 11215
Chauhan, H. S. 10592
Chauhan, R. 9444
Chauhan, R. S. 7551, 10141
Chauhan, S. K. 5111
Chauhan, V. B. 3978
Chauhan, V. S. 7998
Chauhan, Y. S. 5346
Chaumont, F. 8540
Chaunis, S. 6542
Chauvin, L. 2955
Chauvin, L. P. 187
Chavan, S. A. 6013
Chavan, U. D. 3774
Chaves, M. M. 5533, 10442
Chávez Hernández, L. F. 3038
Chávez Z., C. 748
Chaw, S. M. 8629
Chawachart, C. 10478
Chawla, V. 251, 12576
Chay, C. H. 5956
Chay, P. M. 512, 10532, 11778, 11782
Chaybani, R. 6666
Cheadle, V. I. 9899
Chebotar', S. V. 10078
Chebotareva, M. S. 11965
Checheneva, T. N. 10276
Chee, P. P. 724, 2328, 12228
Chee, P. W. 2784, 6744
Chée, R. P. 1808
Cheek, M. 4419
Cheema, A. S. 886
Cheema, H. K. 9429
Cheema, S. S. 5322
Chefdor, F. 7630
Cheliak, W. M. 5555
Chełkowski, J. 4839
Chelliah, S. 7992
Chen, B. F. 10053, 10697
Chen, B. L. 4401
Chen, B. Y. 2733
Chen, C. 2008
Chen, C. B. 3850
Chen, C. C. 920, 2772, 4297, 7545, 12122, 12289, 12729, 13230
Chen, C. G. 12729
Chen, C. H. 11581, 12488
Chen, C. J. 11035
Chen, C. L. 6030, 8392
Chen, C. M. 4554, 6480, 12131
Chen, C. S. 11559
Chen, C. Y. 1576
Chen, D. F. 6742
Chen, F. 494, 4770
Chen, F. G. 10969
Chen, F. Q. 8968, 10164, 10984, 11116
Chen, F. R. 657
Chen, F. S. 2106, 4343
Chen, F. T. 1971, 12063, 12167
Chen, F. Y. 3841
Chen, G. C. 508
Chen, G. D. 2544, 12484
Chen, G. J. 12048
Chen, G. P. 9743, 12678-12679
Chen, G. Y. 6975
Chen, H. B. 6299
Chen, H. H. 12857
Chen, H. Y. 648, 1331, 4730
Chen, J. 11912
Chen, J. C. 410, 6984, 11224
Chen, J. D. 2778
Chen, J. J. 1945
Chen, J. L. 9662, 10786
Chen, J. M. 6728
Chen, J. Q. 4886, 7539, 8589, 13105
Chen, J. T. 11893
Chen, J. Y. 806
Chen, K. L. 794, 799, 9619
Chen, L. 11937
Chen, L. B. 6219
Chen, L. F. O. 508, 11585, 11698, 12451, 12831
Chen, L. G. 794, 805, 1915, 10811
Chen, L. H. 8408
Chen, L. M. 1527, 6965
Chen, L. Z. 11236
Chen, M. 5315
Chen, M. C. 8774, 9201
Chen, M. F. 2761
Chen, M. H. 11698
Chen, M. J. 2243
Chen, M. L. 7306
Chen, P. 526, 9375
Chen, P. D. 197, 242, 7752
Chen, P. H. 11912
Chen, Q. 3884
Chen, Q. F. 432, 1704, 2767, 3589, 10361, 11954
Chen, Q. L. 6029
Chen, Q. P. 11040
Chen, Q. Q. 1519
Chen, Q. S. 5313
Chen, Q. Y. 790, 951, 1605, 5313, 6325
Chen, R. 12822
Chen, R. D. 6262
Chen, R. K. 887
Chen, R. X. 12170
Chen, R. Y. 12326
Chen, R. Z. 804, 1790, 11296
Chen, S. 2857
Chen, S. C. 797, 7304
Chen, S. C. G. 508, 9201, 11585-11586, 12831
Chen, S. H. 428
Chen, S. L. 8377
Chen, S. P. 5315, 5852
Chen, S. Q. 8914
Chen, S. S. 10053
Chen, T. A. 8376
Chen, T. H. H. 974, 5537, 11042
Chen, T. Q. 10380
Chen, W. 11534
Chen, W. B. 10381
Chen, W. F. 4888
Chen, W. H. 9894, 12273-12274
Chen, W. P. 192
Chen, X. 1293
Chen, X. F. 9209, 12047
Chen, X. M. 2623, 5895, 11708
Chen, X. S. 790, 5221
Chen, X. W. 7306
Chen, X. Z. 3701
Chen, Y. 1702, 2873, 4880, 10380, 10959, 11727
Chen, Y. D. 622, 10628
Chen, Y. F. 9220
Chen, Y. H. 2008
Chen, Y. M. 6646, 9233, 10701
Chen, Y. P. 3281
Chen, Y. Q. 12052
Chen, Y. R. 6084, 11333
Chen, Y. W. 584
Chen, Y. Z. 8124
Chen, Z. 432, 1570, 2767, 5852, 8028, 8048
Chen, Z. H. 118
Chen, Z. K. 6592
Chen, Z. L. 902, 1076, 5314, 6494, 6774, 7391
Chen, Z. M. 1293, 3819, 6323
Chen, Z. S. 5313, 9619, 9627
Chen, Z. X. 948, 4306, 6503, 6592
Chen, Z. Z. 12197, 12199
Cheng, B. C. 9178
Cheng, B. F. 4219, 12036
Cheng, B. J. 5497, 10965
Cheng, B. S. 4721
Cheng, C. H. 5867
Cheng, H. 3274
Cheng, H. F. 3860
Cheng, J. 8128, 11417
Cheng, J. A. 1615
Cheng, L. 5865
Cheng, M. C. 9201, 11585
Cheng, M. Y. 9238
Cheng, N. H. 2758
Cheng, S. H. 3947, 6045, 9212
Cheng, S. Q. 11520
Cheng, X. Y. 9224
Cheng, Y. 5997
Cheng, Y. C. 8581
Cheng, Y. K. 11534, 11540
Cheng, Z. M. 2735
Chengalrayan, K. 10880
Chénieux, J. C. 988, 4398, 13384
Chenikalova, E. V. 11367
Cheong, K. F. 10988
Cheong, N. E. 11699
Chéour, F. 10148
Cherednichenko, I. F. 5429
Cherednichenko, V. N. 10211
Cherepneva, G. N. 4956, 5212
Cherevchenko, T. M. 4531
Cherezhanova, L. V. 11823
Cherif, C. 8369
Chérif, M. 2626, 5066, 6844
Cherifi, K. 12811
Chermiti, B. 13020
Chern, Y. C. 7545, 12289
Chernakov, V. M. 2507, 4712
Chernata, D. M. 5427
Cherney, D. J. R. 11469
Cherney, J. H. 11469
Chėrnīk, V. F. 7285
Chernodubov, A. I. 3359
Chernousova, N. M. 11495
Chernyad'ev, I. I. 5675
Cherrad, M. 1908
Cherry, R. H. 6448
Chervyakova, O. N. 8398
Chesnokov, Yu. V. 2672, 9975, 10227, 10656
Chesser, R. K. 8832
Chesson, A. 6346
Chet, I. 6500
Chetelat, R. T. 677, 4069
Chetkova, S. A. 5056
Chetrit, P. 2065
Chetsanga, C. J. 8171
Chetverikov, A. G. 11447
Cheung, A. Y. 3516, 4300
Cheung, W. 11282
Cheung, W. Y. 4557, 12053
Chevalet, C. 12428
Chevalier, M. 7256
Chevallier, M. H. 9763
Chevone, B. I. 10489
Chèvre, A. M. 7324, 12037, 13126
Chevreau, É. 740, 4115, 4129
Chhabra, B. S. 10970
Chhabra, K. S. 575
Chheda, H. R. 1869
Chhimwal, C. B. 5535, 10999
Chhuneja, P. 1288-1289
Chi, J. W. 6301, 9584
Chia, T. F. 13375
Chialva, F. 13394
Chiang, C. C. 8273
Chiang, C. H. 9832
Chiang, Y. P. 10241
Chiapello, H. 1156
Chiarandà, F. Q. 2511
Chiari, T. 9097
Chiatante, D. 8191
Chiavarino, A. M. 9061, 9063
Chibbar, R. N. 4371, 4678
Chichiriccò, G. 7388
Chidambaram, S. 5998
Chigrin, V. V. 4744
Chihab, B. 3635
Chikaleke, V. A. 626
Chikani, B. M. 3251
Chikazumi, N. 8004, 11554, 11563

Chikhale, N. G. 10483
Chikhale, N. J. 10482
Chikwamba, R. 2708
Chilcott, C. N. 9971
Child, D. V. 8222
Childs, K. L. 12692
Chiliswa, P. 9166
Chilosi, G. 2994
Chilton, M. D. 10061
Chilton, W. S. 5608, 10061
Chimenti, C. A. 7337
Chin, C. K. 1802
Chin, E. 9015-9017, 10226
Chin, S. F. 2839
China, Institute of Vegetables and Flowers 6165
China, Tumnji Institute of Grassland Research 8880
Chinchanikar, G. S. 7312
Ching, A. 12171
Ching, Y. L. 4383
Chinn, E. 4385
Chinnappa, C. C. 6467
Chino, M. 186, 6821, 7640, 8147, 12592
Chinoy, C. N. 5841
Chipens, G. I. 4560
Chirde, S. S. 6513
Chishti, S. N. 7126
Chistyakova, A. K. 8875
Chitra, K. 5510
Chittenden, L. M. 7975
Chiu, C. M. 9834
Chiu, W. L. 1005
Chiusi, A 9097
Chiyembekeza, A. J. 4263
Chkanikov, D. I. 2555
Chlebowska, D. 5269
Chloupek, O. 2293
Chmielewski, J. G. 1004
Cho, B. H. 7658
Cho, E. G. 4757
Cho, H. J. 5113, 6241
Cho, J. J. 3077
Cho, J. T. 11056
Cho, K. C. 1381
Cho, M. J. 1934, 11699
Cho, M. R. 12242
Cho, S. 11174
Cho, Y. P. N. 6370
Chochola, J. 10903
Choe, B. H. 9113-9114
Choi, B. J. 5653
Choi, C. Y. 1993
Choi, D. 10576
Choi, D. C. 5653
Choi, H. C. 1582
Choi, H. K. 2356
Choi, I. S. 10492
Choi, P. S. 8370
Choi, S. H. 1606
Choi, S. Y. 7526
Choi, Y. J. 44
Choisne, N. 6167
Chollet, R. 11183
Chong, J. 2645, 3692, 5936, 12641
Chong, K. K. 13409
Chong, K. X. 3346
Chongkid, B. 11610
Choo, C. L. 9764
Choo, M. K. 10411
Choo, T. M. 7833-7834, 10436, 11385
Chopra, N. 3790
Chopra, N. K. 3790
Chopra, R. K. 7856
Chopra, S. K. 4118
Chopra, V. L. 826, 1956, 6380, 6708, 8476, 8928, 10536, 13127
Chorbadzhieva, M. 4914
Chore, C. N. 4905
Chory, J. 74, 3518, 7644-7645, 7650, 10013, 10023, 11211
Chou, I. T. 12403
Chou, Z. M. 1616
Choudhari, P. N. 4325
Choudhari, S. D. 10308
Choudhary, A. K. 9698
Choudhary, D. K. 6257-6258
Choudhury, B. 627, 7209
Chourey, P. S. 7885
Chovatia, R. S. 5330
Chow, C. S. 3222
Chow, W. S. 3213, 4898
Chowdhry, M. A. 11346
Chowdhury, M. A. H. 1323
Chowdhury, M. K. U. 6745
Chowdhury, S. I. 11766
Chowdhury, S. K. 563
Chriqui, D. 910, 7440, 13201
Chrispeels, M. J. 79
Christeller, J. T. 605
Christensen, A. H. 1645, 6071
Christensen, M. E. 1138
Christensen, P. J. 12027
Christensen, S. 10170
Christenson, E. A. 8719
Christey, M. C. 12971
Christiansen, F. B. 8786
Christiansen, S. 7052
Christianson, T. 4745
Christie, B. 8776
Christie, B. R. 10436
Christoffersen, R. E. 5326
Christophe, C. 12428
Christopher, D. A. 5914, 10172
Christou, P. 40, 10448
Christov, M. 7347
Christov, V. 9381
Chrz, D. 8409
Chrzanowska, M. 7169
Chu, A. C. P. 7017
Chu, B. Y. 1153, 4589
Chu, D. C. 807
Chu, G. L. 8865
Chu, N. Y. 7545, 12289
Chu, Q. R. 1128, 1527, 2752, 6965
Chua, N. H. 913, 1015, 3416-3417, 5449, 7521, 9544, 10925, 10929, 11750, 13224, 13375
Chuakuna, S. 11715
Chubey, B. B. 7185
Chueca, A. 8194
Chughtai, S. R. 7912
Chugunkova, T. V. 2035
Chui, S. F. 12158
Chundawat, B. S. 6399
Chundurwar, R. D. 2715-2716
Chung, J. D. 12199
Chung, M. C. 11560, 12731
Chung, M. G. 11083, 13283
Chung, O. K. 1294
Chung, S. K. 12242
Chung, T. Y. 5316, 6022, 6031, 6046
Chung, W. J. 1802
Chung, Y. Y. 12270
Chunwongse, J. 4075
Chupeau, M. C. 8599, 12989, 13273
Chupeau, Y. 8549, 8599, 10926, 12989, 13273
Chuquillanqui, C. 8263
Churchill, G. A. 1224, 8858
Chutkaew, C. 11470
Chuvasheva, E. S. 1736
Chyi, Y. S. 5958
Chynoweth, D. P. 6960
Chyou, M. S. 9894, 12273-12274
Ciaffi, M. 7777
Cianzio, S. R. 8158, 9353
Cianzio, S. R. de 2868, 9365
Cibella, R. 3192
Ciceri, P. 9131
Cichy, H. 2665, 8997
Cid-Alvarez, N. 10789
Cierniewska, A. 8983
Ciesielski, T. 38
Cieślik, E. 5119, 9467
Cifarelli, S. 7691
Cigan, M. 3721
Cilas, C. 4287, 10919
Çinar, A. 5320
Cinco-Moroyoqui, F. J. 6811
Cinelli, F. 6617
Cinsoy, A. S. 1693, 6208
Cintra, F. L. D. 10873
Cionini, G. 3427
Cionini, P. G. 7028, 7509, 9268
Cipollini, M. L. 11112
Cipriani, G. 9603
Cirami, R. M. 743, 8424
Ćirić, D. 2508
Cisar, G. 8941
Citovsky, V. 2319
Citterio, S. 8196
Civerolo, E. L. 4180
Clack, T. 4595, 11200
Claes, B. 12757
Clancy, J. A. 12599
Clancy, K. M. 987, 3366
Clancy, M. 10238
Claparols, I. 336, 7507, 7938
Clapham, D. 2121, 5596
Clapham, D. H. 2051, 8640
Clark, A. E. 5802
Clark, A. G. 10035
Clark, A. M. 5656
Clark, C. J. 10797
Clark, G. 3485, 5471
Clark, J. 185
Clark, J. R. 7283, 8417, 8425, 10763, 13083
Clark, J. S. C. 9408
Clark, L. G. 7557
Clark, R. B. 11165
Clark, T. A. 7861
Clark, T. P. 11014
Clark, W. D. 2398, 2400
Clarke, A. 3282
Clarke, A. E. 2062, 3547, 4301, 6486, 8551, 11879, 12448, 13002
Clarke, B. B. 11052
Clarke, G. R. 1922
Clarke, J. H. 3525
Clarke, J. M. 8, 180, 2486, 2499, 3629, 7763-7764, 8877, 10135, 12511
Clarke, J. R. 10762
Clarke, P. J. 10076, 11302
Clarkson, B. D. 13341
Clarkson, M. I. 1083
Classen, H.L. 4979
Clausen, A. M. 1640, 8233
Clausen, T. P. 4352
Clay, R. T. 8676
Claydon, N. 4503
Claypool, P. L. 8922
Clegg, M. T. 157, 1179, 2400, 4835, 5825, 12699
Clement, C. R. 5331, 5567
Clement, S. L. 8142
Clemente, T. E. 5400
Clements, J. C. 7063, 11686, 12820
Clements, M. A. 12278
Clercq, R. de 683
Clericus, M. 9453, 10674
Cleyn, M. de 11157
Clifford, M. N. 903
Clifford, S. C. 7502
Clift, A. D. 2836
Clijsters, H. 914
Clijsters, H. M. M. 12150
Cloney, L. P. 824-825
Close, P. 9073, 11428
Close, P. S. 11498
Close, T. J. 143, 11432
Clouse, S. D. 6126, 8154
Cloutier, D. C. 3380
Clua, E. 4587
Clucas, C. P. 9116
Clulow, S. A. 2957, 2962
Cnops, G. 11212
Coale, F. J. 6446
Coates, D. J. 4019
Çobanoğlu, D. 12643
Cobb, A. G. 1017
Cobb, B. G. 10288-10289
Cobb, N. S. 11025
Coca, M. A. 4237, 12057
Cocciolone, S. M. 3722, 3749-3750
Cochard, B. 13146
Cochran, K. D. 2169
Cochrane, M. P. 7843
Cociu, V. 5246
Cockburn, B. 4293
Cockerham, C. C. 4625, 8842
Cocking, E. C. 435, 10377
Cocks, P. S. 6081
Cocucci, A. A. 2069
Codianni, P. 3693, 4652
Coe, E. 7892-7893
Coe, E. H. 3728, 7880, 7966, 10244-10245, 11444, 11498
Coe, E. H., Jr. 6894, 7932, 12662
Coelho, P. J. A. 1738
Coen, E. 3406, 6580, 10041-10042
Coen, E. S. 2196, 3407, 3409, 8696
Coetzee, N. 7500
Coetzer, E. 12011
Coffelt, T. A. 3245, 9687, 13164
Coffin, R. 1776
Coffin, R. H. 1791, 12939
Coffman, W. R. 346
Cognata, U. la 10566
Cogollo P., A. 5570
Cohen, A. 8364
Cohen, B. A. 12077
Cohen, D. 7523, 9867
Cohen, J. 6663
Cohen, J. D. 150, 8814
Cohen, J. I. 11147
Cohen, L. 8923
Cohen, R. 3088, 3094, 11908
Cohen, R. A. 4141, 13068
Cohen, Y. 3089, 8364, 8856, 9683
Cola, G. di 6841
Colaprico, G. 1318, 7825
Colas des Frances-Small, C. 606
Colbert, J. T. 325, 5931
Cole, D. T. 1024
Cole, K. P. 12030-12031, 12094
Cole, P. S. 4083
Cole, R. A. 3052
Coleman, A. W. 3514
Coleman, G. D. 974, 5537
Coleman, J. R. 545, 10521, 12123, 12401
Coleman, M. 8255
Coleman, M. D. 5522, 5545-5546
Coleman, S. 609
Coleman, W. K. 10591
Coles, G. 12132
Coles, G. D. 9469
Colijn-Hooymans, C. M. 8306
Colijn-Hooymans, T. M. 11866
Colin, F. 4373
Collaku, A. 10106
Collantes, M. 4923
Collaud, J. F. 1339, 1376, 1388, 1400, 4752, 6727, 11286
Colleau, J. J. 12428
Collet, G. F. 10600
Collicutt, L. M. 11073-11074
Collier, D. E. 2516
Collin, G. J. 9940
Collin, H. A. 4016, 9525
Collin, J. 2502, 7818, 10066
Collin, S. 9704
Colling, C. 5674
Collingborn, F. M. B. 7805
Collinge, D. B. 2913, 5925, 11394
Collinge, M. A. 12408
Collins, A. 266
Collins, G. B. 10471, 11119
Collins, G. G. 12000
Collins, J. K. 7205, 7283
Collins, M. E. 3178
Collins, R. D. 8873
Collins, S. D. 3778
Collins, W. W. 1807, 4102, 8252
Collmer, A. 8271
Colombari, G. 2822, 2832
Colombo, L. 1428
Colón, A. 10039
Colon, L. T. 2991, 7168
Colonna, J. P. 1061
Colonna, N. 9268-9269

Coloquio, E. C. 8053
Colver, P. D. 9262
Comai, L. 6182, 8477
Comber, J. B. 8717
Comeau, A. 2502, 7716, 7818, 10148, 12578
Compère, R. 8085
Comps, B. 9785-9786
Compton, D. 11872
Compton, M. E. 4109, 5207, 12453
Compton, W. A. 11431
Comstock, J. 8173
Comstock, J. C. 894, 6450
Comstock, R. E. 11700
Conceição, A. da S. 7621
Conchou, O. 9917
Concibido, V. C. 6144
Concilio, L. 2343, 5091
Conconi, A. 13015
Condon, A. G. 3619, 11273
Condon, P. 12347
Cone, K. 7932
Cone, K. C. 3722, 3749-3750
Conejero, V. 664, 8349-8350, 13008
Confalonieri, M. 6539
Cong, P. H. 7260, 10722
Conger, B. V. 3872-3873
Conicella, C. 687, 1783, 3968
Conkle, M. T. 7492
Conklin, P. L. 1017-1018, 11076
Conkling, M. A. 4314
Conley, C. A. 6584
Conley, T. R. 5778
Conn, B. J. 8690
Conn, K. L. 8465
Connell, J. H. 5399
Connelly, S. 4579
Conner, A. J. 10765
Conner, J. 9495
Conner, R. L. 175, 2453, 8076, 12498
Connerton, I. F. 3178
Connett, M. B. 6585
Connett, R. M. 2287
Connolly, A. G. 11849
Connolly, T. 9449
Connolly, V. 3875
Connor, H. E. 469, 3905
Connor, K. F. 137
Conrads-Strauch, J. 3084
Consaul, L. L. 1632, 10402
Considine, J. A. 9837, 9861
Consigñado, B. 3856
Consoli, D. 699, 1783, 8259, 11820
Consonni, G. 3719
Conta, D. M. 9287
Conte, M. R. 6841
Conti, D. 12056
Conti, E. 2398, 3188, 3369
Continella, G. 13107-13108
Contos, J. J. A. 12996
Contreras, A. 3002, 3005
Coode, M. J. E. 11017
Cook, A. F. 5918
Cook, C. 5604
Cook, C. G. 3326, 7428
Cook, L. M. 10050
Cook, R. J. 13421
Cooke, A. W. 9632
Cooke, D. A. 4519
Cooke, R. 1156, 2730, 5775
Cooke, R. J. 6216
Cooke, S. E. 6475
Cooke, T. J. 150
Cool, L. G. 2136
Cooley, D. R. 8388
Coomber, S. 10988
Coomber, S. A. 5782
Cooper, J. B. 8099, 11658
Cooper, M. 2301, 3261, 3583-3584, 4271, 8112, 8509, 11849, 12553, 13179
Cooper, R. L. 10456
Cooper, R. M. 13149-13150
Cooper, S. 9991
Coors, J. G. 5947, 5978-5979, 9133, 11234
Copaja, S. V. 2570
Copani, V. 5486
Cope, T. A. 7042
Copley, R. 2211
Coppens d'Eeckenbrugge, G. 5162
Coppolino, F. 1460
Copsey, L. J. 2196
Corbaz, R. 2289-2290, 8390
Corbellini, M. 3693
Corbett, J. D. 7783, 9006
Corbineau, F. 5443
Corbo, R. M. 1025
Corchete, M. P. 4353
Corcos, A. F. 2267
Cord Neto, G. 6883
Cordeiro, M. C. 8320
Cordero, M. J. 11500
Cordero, S. 11684
Cordesse, F. 2730
Cordewener, J. 1803
Cordewener, J. H. G. 6347
Cordo, C. A. 6780
Cordonnier-Pratt, M. M. 7396
Coremans-Pelseneer, J. 3224
Corey, A. 8968
Cormack, J. 9050
Cornaire, B. 12069
Corneanu, G. C. 990
Corneanu, M. 990
Cornejo, M. J. 1402
Cornelissen, B. J. C. 5115, 5743, 8564, 10607
Cornelius, J. 13260
Cornelius, P. L. 5725-5726, 5854, 8113, 12350
Cornish, E. C. 3412, 4440
Cornu, D. 7438, 12182, 12200
Corona Torres, T. 7122
Corr, C. 3054
Corral, F. J. W. 6811
Corrales García, J. J. E. 768
Correa Victoria, F. J. 2764
Correa-Victoria, F. J. 3853, 7001, 8051-8052
Correale, A. 688
Correll, J. C. 8050, 10648
Corrente, J. E. 1173
Corsini, D. 1795, 11806
Corsini, D. L. 1796, 10598, 11838
Corso, C. 8776
Corso, G. M. 4253
Cortez-Rocha, M. O. 6811
Cortéz Velázquez, A. 7122
Corujo, J. I. 1450
Coruzzi, G. M. 5047, 6172, 6174
Cosio, E. G. 2872
Cosner, M. E. 13352
Cosset, A. 9976, 11802
Cossins, E. A. 6606, 8734, 11349
Cossio, F. 3108, 5249
Costa, A. S. 6158
Costa, C. P. da 718, 1866, 13043
Costa, G. 4046, 5301
Costa, H. 8170
Costa, M. A. 4576
Costa, N. M. S. 11692
Costa, R. B. da 13285
Costa e Silva, J. 13312
Costabile, P. 6266
Costacurta, A. 9599
Costantino, P. 5758, 6474, 7388, 13211
Costică, N. 10724
Costich, D. E. 3144
Côté, F. 5182
Côté, J. C. 12053
Côté, M. J. 3589
Cothran, E. G. 1181
Coto, T. D. 11114
Cotterill, P. J. 8970
Cotterill, P. P. 5524
Couch, T. 12851
Coudriet, D. L. 1858
Couffignal, R. 204
Couillerot, J. P. 1826
Coulman, B. 1673
Coulson, M. 9773
Coulthart, M. B. 1245, 11405
Counts, R. L. 3868
Coupe, S. A. 5365-5366, 9613
Coupland, G. 1238, 3505, 5964, 7634, 8815, 11212, 11225
Coupland, G. M. 5773
Courage, U. 5964
Courage-Franzkowiak, U. 3729
Courduroux, J. C. 7175
Court, W. A. 8507
Courtin, C. 5548
Courtney, W. H. 625
Courtney-Gutterson, N. 4426, 8680, 13366
Courtois, B. 6969
Courtois, D. 5118
Cousin, R. 5052, 6195, 8136, 8199
Cousineau, J. C. 1899, 9590
Cousins, Y. 9972
Coussirat, J. C. 7393
Coutinho, T. A. 9713
Couture, L. 10134
Couture, R. 5157
Couturon, E. 10918
Couvet, D. 2346, 4484, 4630, 12446
Covey, S. N. 5122
Cowan, R. S. 5556-5557, 11004-11006
Cowen, N. M. 1464
Cowl, J. S. 2360
Cowle, N. T. 12054
Cowley, J. 6568
Cowling, W. A. 3930, 11686, 12820
Cown, D. J. 8636
Cox, A. V. 2376
Cox, E. L. 4050
Cox, M. C. 6435
Cox, P. B. 355, 359
Cox, P. J. M. 1488
Cox, R. M. 9771
Cox, T. S. 1294, 2481, 3639, 6803, 6805-6806, 6813, 8903, 8939, 10131, 10142, 11369, 12545
Cox, W. J. 11469
Coyne, D. P. 1725, 3962, 7103
Cozijnsen, T. J. 6276
Cozza, R. 7670
Crăciun, C. 106
Crăciun, V. 106
Crackles, F. E. 7037
Crafts-Brandner, S. J. 3050
Craiciu, D. 7355
Craig, A. L. 8255
Craig, R. 4406, 6561
Craig, S. 3519, 3644, 6107, 11215
Cramer, G. R. 11496
Cramer, J. H. 5958
Cramp, R. E. 6185
Crane, C. E. 13267
Crane, C. F. 7409
Crane, V. C. 3746
Cranstoun, D. A. S. 8961
Craven, L. A. 8159
Crawford, D. J. 13352
Crawford, N. M. 73, 5789, 12395
Crawford, S. W. 927
Crawford, T. J. 11130
Crawley, M. J. 841, 5380
Craze, M. 5363
Creech, R. G. 6522
Creemers-Molenaar, J. 3098
Cregan, P. B. 12828
Cregan, P. D. 8111, 12818
Cregg, B. 5521
Cregg, B. M. 5584
Creij, M. G. M. van 1144
Creissen, G. 9951, 11751
Creissen, G. P. 6173, 6193, 8783
Cremonini, R. 5022, 9268-9269
Crepet, W. L. 11255
Crescenzi, A. 10695
Crespi, M. D. 12813
Crespi, S. 6183
Crespo, M. 2226
Cress, W. A. 2098, 6898
Cresswell, J. E. 8478
Cresti, M. 2063, 11814
Crétin, C. 11183
Creusot, F. 6167
Cribb, P. J. 6594-6595
Criddle, R. S. 9828, 10254, 13325
Criley, R. A. 9928
Crino, P. 6108, 6210
Cripps, J. E. L. 8378
Criqui, M. C. 9727, 10934
Crisosto, C. H. 4137
Crispi, M. L. 1837
Cristea, G. 524
Cristea, V. 515
Cristinzio, G. 709-710, 9652
Črnko, J. 10730
Crochemore, M. L. 10440
Croft, K. P. C. 5739
Crofts, A. R. 7646
Croix, I. F. la 6593-6594
Cromey, M. G. 2526, 10145, 11382
Cronauer-Mitra, S. 1912
Crone, W. 11218
Crop Genetic Resources 5946, 5953, 9521
Cros, E. T. du 4351, 8611
Cros, J. 904
Crosatti, C. 2433, 2661, 7855, 11392
Crosbie, G. B. 11341
Crosby, J. A. 738, 3120
Crosby, W. L. 2327, 4559
Cross, R. J. 7772, 12337, 12487, 12602
Crossa, J. 4546, 7783, 12350
Croteau, R. 9808
Crouch, J. 6353
Crouch, N. R. 3396
Croughan, S. S. 9262
Croughan, T. P. 10390
Crouzet, P. 928
Crouzillat, D. 12059
Crow, G. H. 1249
Crow, J. F. 12444
Crowe, J. H. 1216
Crowe, L. M. 1216
Crowley, C. 5874
Croy, E. J. 9999
Croy, R. R. D. 5149, 9983, 9985, 9989, 9999, 11137
Crum, C. W. 12027
Crush, J. R. 7058
Crute, I. R. 1169, 3199, 11228-11229
Cruz, C. D. 4809, 7093-7094, 7311, 11418, 13111
Cruz, F. 5968
Cruz, G. S. 6332
Cruz, R. de la 7989
Cruz, T. 12291
Cruz I., S. 5017, 5034
Cruzan, M. B. 2200, 4443-4445, 4468, 5650, 11078
Csanádi, G. 7051
Csányi, M. 662
Cserni, I. 11930
Cseuz, L. 8917
Csinos, A. S. 10940-10941
Csősz, M. 5893, 6793
Cubero, J. I. 5, 531, 3955, 4409, 6154, 7072, 7597, 10534, 11680
Cuello A., N. L. 10447
Cuenya, M. I. 5409
Cueto, M. 3433
Cuevas-Pérez, F. 8052
Cuguen, J. 2031, 9785, 10907
Cui, C. S. 5852
Cui, D. Q. 219
Cui, H. W. 11936, 13041
Cui, J. 2742
Cui, J. Z. 9560
Cui, R. X. 10964
Cui, S. F. 938
Cui, X. G. 10274
Cui, Y. Y. 3281
Cui, Z. L. 11717

Culbreath, A. K. 868
Culíanez-Macía, F. A. 1013, 4435, 7919
Cullimore, J. V. 2825
Cullis, C. A. 12165-12166
Culp, T. W. 10956
Cultivar 11308, 11422, 11426-11427, 12486
Culvenor, R. A. 2820, 10413
Culver, J. N. 5468
Cumbes, Q. J. 471, 4432
Cuming, A. C. 3593, 4633, 5709
Cummings, M. P. 4912
Cummings, N. J. 3178
Cummins, I. 4213, 6339
Cummins, W. R. 2516
Cunanan, D. 5989
Cunfer, B. M. 176
Cunha, A. P. da 9932
Cunningham, A. B. 1095
Cunningham, C. E. 11799
Cunningham, I. S. 2948, 3964
Cunningham, P. J. 2780
Cunningham, R. A. 3348
Cuny, F. 4105
Cupertino, F. P. 4097
Ćupina, T. 7339
Curá, J. A. 4834
Curbelo, F. 3891
Cure, J. R. 5027
Çuri, P. R. 4253
Čurn, V. 7053
Currie, A. 10742
Currie, I. D. 9449
Curtis, C. A. 3612, 6746, 10214
Curtis, P. S. 10630
Cushman, J. C. 8730, 12279
Cushman, M. A. F. 1170
Custers, J. B. M. 6347
Cutler, A. J. 1139, 7627
Cutolo, R. 5457-5458
Cutsem, P. J. van 6260
Cutt, J. R. 3309
Cuvillier, C. 11210
Cuzzoni, E. 3055
Cybulska-Augustyniak, J. 8983, 8995
Cygankiewicz, A. 2495, 10116
Cyr, D. R. 7485, 11030
Czakó, M. 82, 7619
Czapla, T. H. 4193
Czaplicki, A. Z. 8906
Czarnecki, E. M. 7723-7724
Czembor, H. J. 2437, 3581
Czembor, J. H. 6778
Czerko, Z. 5108
Czeschin, D. G., Jr. 7409
Czihal, A. 12634
Czosnek, H. 681, 9553, 10685, 11895
Czyzewicz, J. R. 11459
Da Câmara Machado, A. 5467
Da Câmara Machado, M. L. 5467, 13058
Da Costa, C. P. 718, 1866, 13043
Da Costa, R. B. 13285
Da Cunha, A. P. 9932
Da Silva, A. C. 6864
Da Silva, A. C. F. 652
Da Silva, J. A. G. 3259
Da Silva, J. B. F. 1026
Da Silva, L. L. 7442
Da Silva, L. O. 5016
Da Silva, M. J. 6883
Da Silva, M. T. B. R. 4272
Da Silva, P. R. F. 5390-5391
Da Silva, W. J. 9156
Da Silva Filho, D. F. 5331
Dabas, B. S. 11779
Dabholkar, A. R. 4523
Dabo, S. M. 2082
Dabre, W. M. 6955
Dąbrowska, B. 3059, 13013
Dachkevitch, T. 7730
Dacomo, G. 7274
Dadson, R. B. 10488
Daele, G. van 10728, 13047
Daelen, R. A. J. J. van 682
Dafel, H. A. 6249
Dafni, A. 5618
Dagaonkar, V. S. 5503
Dagar, J. C. 12051
Dahiya, B. S. 9416, 12891
Dahiya, S. S. 4194
Dahlbeck, D. 1168, 5184
Dahlberg, J. A. 6913
Dahlhoff, M. 3218
Dahmer, M. L. 8090
Dai, D. Q. 2460
Dai, L. G. 4880
Dai, L. Y. 5549
Dai, Q. J. 3848
Dai, S. H. 9130
Dai, S. J. 9363
Dai, X. K. 1357
Dai, X. K. L. 285
Dai, Z. L. 799
Daido, H. 3870
Daie, J. 5765, 8526
Dajoz, I. 2187, 8679
Dal Bó, M. A. 12002
Dalal, K. C. 6290-6291
Dalal, M. A. 780
Dalal, S. K. 257
Dale, A. 766, 4146
Dale, J. 6454
Dale, M. F. B. 2947, 2973, 3007, 3009, 9465, 9478, 11827, 12934
Dale, P. 916
Dale, P. J. 1150, 2349, 6354, 6742
D'Alessandro, A. 4087
Dalfollo Ribeiro, N. 11740
Dali, N. 1825
Daljeet Singh 9516
Dalke, L. 2027
Dallas, J. F. 3803
Dalling, M. J. 1291
Dallman, G. 5868
Dall'Orto, F. A. C. 4142, 5259, 5307
Dalmacio, R. D. 6033
Dalmay, T. 10953
Dalton, D. A. 4986
Dalton, F. N. 1113, 1842
Dalvi, D. G. 211
Daly, D. C. 7465
Damania, A. B. 7776, 7791, 8759
Damarany, A. M. 10624, 10627
D'Amato, F. 5864
Damay, N. 9708
Dambier, D. 13093
D'Ambrosio, F. 610, 8259, 10572
Damerval, C. 1405, 7879, 12215
Damgaard, C. 12028
Damiani, F. 2829, 9281
Damiani, G. 8604
Damiani, R. D., Jr. 3712
Damiano, C. 4151, 5274, 8454
Damidaux, R. 6271
Damilano, A. 303
Damm, B. 663, 12413
Damme, E. J. M. van 632, 8299, 8703
Damon, J. P. 6563
Damp, J. E. 13242
Dana, I. 10689
Dana, S. 1772, 10326-10327
Dancik, B. P. 148, 7481
Dandekar, A. M. 816, 3058, 4120, 4157, 8458
Dane, F. 13119
Danell, Ö. 5579
Danesh, D. 8231, 8338, 13016
Dang, B. Y. 287
Dangariya, C. J. 4267
Dangl, J. 1166, 4596, 5787
Dangl, J. L. 2308, 12298
Danhash, N. 6276
Dani, M. 3767
Dani, R. G. 2092, 4333, 7414, 8576-8577
Danial, D. L. 3662, 6791
Daniel, C. 12069, 13155
Daniel, M. K. 9457
Daniel, T. F. 6574
Daniel-Vedele, F. 10931
Daniell, H. 12387
Daniells, J. 8436
Daniels, M. J. 1959, 3530, 5786
Danilova, I. A. 5271
Danin-Poleg, Y. 11908
Dankov, T. 9068, 9075
D'Anna, F. 5274
Danneberger, T. K. 9254
Dános, B. 6605
Danso, S. K. A. 2867
Danthu, P. 1061, 9802
D'Antonio, V. 4043
Dantre, R. K. 10419
D'Antuono, L. F. 6839, 7761
Dantur, N. C. 1723
Danusevičius, J. 3355-3356
Dao, P. T. 1692
Daood, H. G. 9558
Daoust, G. 5593, 13316
Dapkūnienė, S. 2950
D'Aquino, S. 13107
Dara, S. T. 9261
Darash, R. 2018
Darasinh Sihachakr 2954
Darbyshire, S. J. 4924, 9246, 10401
Dardenne, P. 5050, 5976
Dardevet, M. 7773
Dardoize, F. 204
Daroda, L. 6820
Darrah, L. L. 10302, 12671
Darsow, U. 2992, 2997, 8277
Darvasi, A. 5790
Darvey, N. L. 2663, 8984, 12473
Darvill, A. G. 11747
Darwin, S. P. 132
Das, A. 6227
Das, A. B. 2217, 4394
Das, A. D. 10333
Das, C. 785
Das, G. P. 4010-4011
Das, K. K. 3082
Das, L. D. V. 378
Das, M. K. 256, 2546, 8926, 10137, 11363
Das, M. L. 1941
Das, N. D. 10712
Das, O. P. 9090-9091, 9110, 10225, 10256
Das, P. 4394, 13286
Das, P. K. 3653
Das, S. 1655, 9162
Das, S. C. 4281, 13196
Das, S. N. 1995
Das, T. 5512
Das Chagas, M. C. M. 5070
Dasgupta, A. 2935
Dasgupta, T. 7129, 10556
Dashiell, K. E. 2871, 9360
Dashora, S. L. 1056, 6607
Daskalov, S. 1848, 4095
Dass, S. 9118, 9153
Dassanayake, M. D. 13370
Dastidar, K. K. G. 957
Datla, R. S. S. 4371, 4559
Datnoff, L. E. 9229, 9528
Datta, F. U. 2844
Datta, K. 11562
Datta, S. K. 1865, 2163, 2456, 3812, 9835, 11562
Datta, S. K. D. 2754
Datta, S. K. de 12735
Dattée, Y. 2261
Daub, M. E. 12248
Daubeny, H. A. 5265, 9590
Daugherty, C. J. 9671
Dauncey, E. A. 6595
Daushkevich, Yu. V. 4631
D'Auzac, J. 6366, 6529
Dávalos, A. 11547
Davey, M. A. 7977
Davey, M. R. 958, 4342, 5805, 7224, 10377, 11050, 11881
Davì, A. 5484-5485
David, A. 749, 10993, 13303
David, C. 3013
David, H. 749, 13303
David, J. L. 6696, 12503
Davidov, S. D. 4712
Davidse, G. 3903, 4937, 7045
Davidson, A. 290
Davidson, C. G. 8416
Davidson, J. 7574, 10742
Davidson, R. 2135
Davie, P. 8255
Davies, C. 7214, 10014
Davies, D. R. 6171, 6175, 6189, 6631, 9704
Davies, E. 10516, 10614
Davies, F. T., Jr. 5625
Davies, H. V. 603, 6236, 8652
Davies, J. M. L. 3045
Davies, J. W. 2670, 5476, 8789
Davies, K. M. 656, 5223, 5632, 7250, 12984
Davies, P. J. 549-550, 9403
Davies, P. L. 935
Davies, R. 5040
Davies, W. J. 7587
Davies, W. P. 5900, 7805
Davik, J. 10616, 13139
Davinder Singh 6987
Davis, A. A. 11798-11799
Davis, A. P. 6589
Davis, D. D. 12159, 12162
Davis, D. W. 7970, 8931, 11514
Davis, E. S. 7868
Davis, F. 9305
Davis, F. M. 2704, 11513
Davis, J. 5825
Davis, J. H. C. 5714
Davis, J. I. 1632, 2819, 7043, 10411, 11623
Davis, J. M. 974
Davis, J. N. 3275
Davis, J. R. 10598
Davis, L. C. 520
Davis, R. D. 10443
Davis, R. I. 2937, 9434
Davis, R. M. 10294
Davis, R. W. 7390, 7635
Davis, T. D. 4358
Davis, W. H. 12833
Davy, A. J. 8596
Davy, T. 9993
Davydenko, O. G. 10469
Davydova, I. A. 4865
Davydova, Yu. V. 1789
Dawa, T. 1306, 6222
Dawande, V. B. 7236
Dawe, R. K. 11449
Dawit Tadesse 463, 7685
Dawkins, M. D. 9821
Dawood, R. A. 10102, 10127-10128
Dawson, I. K. 269
Dawson, J. 7636
Dawson, M. I. 469, 3905
Dawson, W. O. 5468, 5478
Dax, E. 10683
Day, A. G. 3305
Day, D. A. 8145
Day, J. L. 3564, 3570, 4201-4202, 4651
Day, J. M. 4957, 6094
Day, K. R. 4137
Day, M. J. D. 918
Day, P. 11179
Day, P. R. 3466
Day, W. H. E. 5762
Daya Chand 12576
Dayal, D. 3237, 12085
Dayanandan, S. 2398
Daykin, M. E. 3152
Daza, A. 485
Daza, H. 1757
Daza, M. C. 10923
D'Croz-Mason, N. E. 6937
De, B. K. 3335
De, D. K. 10983
De, R. N. 1568
De Almeida, É. C. 7192
De Almeida, E. R. P. 959
De Almeida, E. X. 6734
De Almeida, J. 5788
De Almeida, L. A. 7076
De Almeida Engler, J. 3513, 4313
De Ambrogio, E. 2494, 13190
De Andrade, M. 8823

De Andrade Landell, M. G. 4272-4273
De Angelis, G. 1025
De Angelis, P. 5698
De Araújo, M. L. 3061
De Araújo, M. R. A. 11528
De Arruda, H. V. 7948
De Arruda Veiga, R. F. 4253
De Ávila, A. C. 11900
De Bakker, E. P. H. M. 3804
De Barros, E. G. 11440
De Barros, I. 5635
De Beer, C. A. 5639
De Benedictis, J. 3168
De Benedictis, J. A. 13089
De Beus, M. 6084
De Billy, F. 3918, 11666
De Blas, C. 5201
De Block, M. 5764, 6345, 11222
De Bock, T. S. M. 10913
De Boef, W. 2285
De Boef, W. S. 3855
De Boer, G. J. 1016
De Bon, H. 7188
De Bondt, A. 10718
De Borne, F. D. 10926
De Bruijn, F. J. 486, 8122, 12822
De Bruijn, S. M. 6178, 8193, 11760
De Bruyn, M. H. 5651
De Buyser, J. 3625, 6743, 8897
De Camargo, A. P. 4272
De Campos, J. P. 3061
De Campos Vidal, B. 5142
De Carvalho, A. M. 7463
De Carvalho, A. P. 9778
De Carvalho, C. R. 4822, 7908
De Carvalho, F. 6479
De Carvalho, F. I. F. 6862, 6864, 12532
De Castro, J. L. 4739, 5307, 6741
De Castro, L. A. B. 8766
De Castro Silva Filho, M. 8540
De Cianzio, S. R. 2868, 9365
De Clercq, R. 683
De Cleyn, M. 11157
De Datta, S. K. 12735
De Does, H. 7937
De Felipe, M. R. 4315
De Feyter, R. 5473
De Figueiredo, M. 7026
De Franceschi, D. 8451
De Franqueville, H. 6407
De Fries, J. C. 1181
De Graaff, A. 3413
De Groot, M. J. A. 921, 13212
De Groot, P. 2061
De Haan, A. 4059
De Haan, P. 9967
De Halac, I. N. 9871
De Haro, A. 3221
De Holanda, J. S. 5070, 13243
De Israilev, L. R. A. 5641-5642
De Jager, C. M. 3405, 4434, 12259
De Jong, A. 1803
De Jong, E. R. 6065
De Jong, G. 4608, 7678
De Jong, H. 1786
De Jong, J. 3404, 12260
De Jong, J. H. 7217-7218
De Jong, P. C. 7575
De Jong, T. J. 4434, 4637, 12449
De Kam, R. J. 4291, 4470
De Klein, C. M. J. 5174
De Knecht, J. A. 6578, 9145
De Kochko, A. 12744
De Koeyer, D. L. 3688
De Koning, G. J. 12335
De Koning, J. R. A. 5117, 12946
De la Canal, L. 12059
De la Cruz, R. 7989
De la Fuente, J. M. 5037
De la Fuente, V. 12794
De la Fuente-Martínez, J. M. 3290
De la Rosa Fernández, L. 5061
De la Torre, C. 7191, 8300
De la Torre Almaraz, R. 9395
De la Vega, A. 12296
De Labrouhe, D. T. 10866
De Lange, C. F. M. 8168
De Lange, P. 1016, 5759
De Lange, W. J. 13261
De Laurentiis, G. 7357
De Lima, M. R. 651
De Loose, M. 12130
De Lorenzo, G. 5022, 11747
De los Reyes, B. G. 8016
De Lozano, N. B. 13114
De Lucas Bueno, C. 5886
De Lyra Netto, A. M. C. 5071
De Maagd, R. A. 1165
De Maine, M. J. 2957, 2960, 4001, 8258, 8261
De March, G. 749
De Marcillac, G. 1156, 3302
De Martinis, D. 5470
De Mastro, G. 5490
De Meijer, E. P. M. 6528
De Mello-Silva, R. 7473
De Micheli, L. 5287
De Milliano, W. A. J. 2711, 9179
De Miranda, L. E. C. 7948-7949, 9142
De Miranda, L. T. 7948-7949, 9142
De Miranda Filho, J. B. 334
De Mora, T. 3956
De Morais, A. R. 11700
De Neergaard, E. 2913, 7857, 10711
De Nettancourt, D. 114
De Nucé de Lamothe, M. 3226, 6369, 6382, 12071
De Oliveira, A. B. 511
De Oliveira, A. C. 6976, 11156
De Oliveira, D. 4597
De Oliveira, J. V. 7146
De Oliveira, M. R. G. 1326
De Oliveira Camargo, C. E. 3650-3651, 4739
De Oliveira e Silva, S. 4809
De Pace, C. 2994, 8084, 9268
De Paepe, R. 2065
De Paiva, J. R. 12175-12176
De Paiva, W. O. 13043
De Paolis, A. 5758, 6474
De Pater, B. S. 5044
De Pater, S. 11750
De Paula Queiroga, V. 7412
De Proft, M. P. 9531
De Raissac, M. 6032, 9214
De Risi, E. 5457-5458
De Ronde, J. A. 2098, 5509
De Ruiter, J. M. 5999
De Sales, M. P. 9438
De Sio, F. 6266
De Sousa, A. F. 12707
De Sousa, A. P. M. 9778
De Sousa, C. N. A. 4674
De Souza, E. A. 11737
De Souza, N. A. 5070, 13243
De Souza, P. I. M. 4907, 4983
De Souza Reis, M. 6964
De Stefanis, E. 11401
De Taffin, G. 6407
De Toledo, J. F. F. 5385, 7076
De Toledo, N. M. P. 4236
De Torres Zabala, M. 8238
De V. Pienaar, R. 12801
De Varennes, A. 1121
De Vaulx, R. D. 5208
De Verno, L. L. 13320
De Veylder, L. 10017
De Vicente, C. 1843
De Vicente, M. C. 3056
De Vienne, D. 1405, 7879, 8199
De Vil, M. 10718
De Villiers, O. T. 7757, 9255
De Vries, B. J. 11804
De Vries, D. P. 13348
De Vries, J. 1817
De Vries, S. 10010
De Vries, S. C. 1801, 1803, 4013
De Vries van Hulten, H. P. J. 3420
De Wilde, W. J. J. O. 4482, 9930
De Wit, P. J. G. M. 3075, 3477, 6276, 6658
Deagan, K. A. 11481
Deahl, K. L. 1784, 11819
Deak, M. 5449
Dean, B. B. 1795, 5097
Dean, C. 61, 1158, 1238, 3525, 3530, 5773-5774, 7616, 9667, 11212, 13237
Dean, D. H. 5481
Dean, G. H. 13264
Deandreis, G. 3394
Dear, B. S. 8111, 12818
Deaton, W. R. 3317, 6523
Deb, J. K. 12377
Debeaujon, I. 713
Debel, K. 10391
Debener, T. 1166, 2976, 4596, 5787
Debergh, P. 7514
Debnath, S. C. 341, 5975
DeBoer, D. L. 3724
Debouck, D. G. 5031, 9384
Debreyne, P. 928
Debritu Beyene 7685
Debrouwer, D. 6345
Decoteau, D. R. 625
Decourtye, L. 4396, 4405
Decout, É. 1826
Dedieu, A. 3918, 11666
Dedio, W. 3219, 9678
Dedolph, C. 4878
Dedonder, A. 12130
Deeker, W. 9542
Deen, B. 6333
Deepak Pental 630
Deepinder Kaur 11785
Defontaine, A. 4159
Degani, C. 1919, 4184-4185, 9630, 12019
Degenhardt, D. F. 1932
Degremont, I. 12694
Degtyareva, S. S. 4684, 4697
Dehesh, K. 65, 72, 5930
Dehio, C. 3506, 5451
Dehning, I. 10549
Deidda, M. 5166
Deikman, J. 672
Deimling, S. 6896
Deĭneko, E. V. 4944
DeJong, T. M. 5247, 10756
DeJoode, D. R. 950
Deka, A. K. 691, 1847, 3082
Deka, G. C. 6544
Deka, P. C. 8710
Dekens, R. G. 6801, 6853
Dekeyser, R. 12757
Dekker-Robertson, D. L. 4382
Dekroon, C. 12094
Del Arco Aguilar, M. 5615
Del Castillo, R. F. 4422, 9872
Del-Favero, J. 12114
Del Longo, O. T. 7950
Del Pero Martínez, M. A. 2194
Del Pino, A. M. 12056
Del Río, L. A. 10923
Del Río, M. 3221
Del Toro, E. 10140, 12495
Del Valle, R. 13092
Dela Pierre, M. 7555
DeLacy, I. H. 2301, 3583-3584, 6510, 7783, 8509, 11849, 12553, 13179
Delaney, D. 6813
Delaney, R. H. 2828
Delattre, R. 2099
Delaunay, J. 5559
DeLaune, R. D. 12752
Delauney, A. J. 6220
Delbard, F. 729
Delbarre, A. 13203
Delbos, R. 3310, 10947
Delbos, R. P. 5474
Delbreil, B. 8319
DelCardayré, S. B. 4582
Delcher, E. 9996
Delcher-Besin, E. 6743
Delden, W. van 1180, 8741, 12244
Delfosse, P. 2986
Delgado, E. 3287, 5461, 6488, 9725
Delgado, I. 6082
Delgado, N. 4268
Delgado Salinas, A. 10562, 12879
Delhaize, E. 3445, 3644-3645
Delibes, A. 4746, 7871
Della, A. 7823
Della Strada, G. 5250, 7269, 11976
Della Vecchia, P. T. 718, 11921, 11924
Dellaert, L. M. W. 3010
Dell'Amico, J. 10675
DellaPenna, D. 9541
Dellaporta, S. L. 3543
Dell'Aquila, A. 1325
Delle Donne, G. 9382
Delledonne, M. 317
Delogu, G. 164, 2422, 2433, 2661, 4652, 6831, 7819, 10154
Deloire, A. 5290
Delon, R. 3295, 7405, 13421
Delort, J. F. 5230
Delourme, R. 1940, 13132
Delp, G. 5776
Delplanque, A. 5548
Delre, V. 9268
Delseny, M. 1156, 1812, 2729-2730, 5353, 5775, 8850, 9200, 9493, 13126
Delserone, L. M. 8271
DeLuca-Flaherty, C. 5989
Delves, A. C. 4942
Demarly, Y. 7605
Demarquilly, C. 5976
DeMars, S. 5958
DeMason, D. A. 11432
Dembitsky, A. D. 13398
Dembny, H. 13322
Demeke, T. 3997, 8657
Demenais, F. 12428
Demeulemeester, M. A. C. 9531
Demir, İ. 5878
Demissie, A. 8768
Demmig-Adams, B. 9951
Demont, N. 7071
Dempsey, E. 1777, 3727
Demski, J. W. 864, 868
Demura, T. 4417
Demurin, Ya. 7346
Den Boer, B. G. W. 2359
Den Hartog, P. R. 6576
Den Nijs, A. P. M. 116, 722, 3876, 9247, 10397
Den Nijs, T. P. M. 12332
Denby, K. J. 10709
Denćić, S. 2541
Dendsay, J. P. S. 2013, 8518
Denecke, M. 3996
Deng, C. L. 6324
Deng, F. Y. 1332, 2531
Deng, G. H. 4881
Deng, H. D. 1537
Deng, J. H. 5314
Deng, J. Y. 196
Deng, L. Q. 2104
Deng, M. Q. 8581
Deng, Q. X. 8019
Deng, S. T. 9824
Deng, T. C. 5116
Deng, W. X. 4904
Deng, X. L. 7993, 8017
Deng, X. W. 10000, 10020-10021
Deng, X. X. 3173
Deng, Z. N. 3177
Dengler, N. G. 10019
Denić, M. 1462
Denis, J. B. 12551, 12988
Denison, N. P. 13253, 13258
Denissen, C. J. M. 3661
Deniz, B. 11636

Denmark, Landsudvalget for Planteavl 5688
Dennehey, B. K. 5991
Denney, J. O. 5399
Dennis, D. 8248
Dennis, D. T. 3490, 4265, 12030-12031, 12094
Dennis, E. S. 3519, 5985, 7649, 10060, 10233, 11215
Dennis, P. 1014
Denny, R. L. 6144
Deno, H. 12128
Deokar, A. B. 889, 10867-10868, 10870, 12065
Deom, C. M. 13227
Deonton, L. 4084
Deosarkar, D. B. 9225
Deotale, R. D. 6955, 7236, 8036
DePauw, R. M. 180, 1295, 3629, 7763-7764, 8877, 10076, 10135, 11302, 12511
Depicker, A. 928, 12130
Depigny, D. 1812
Der Knaap, J. C. M. van 3404
Der Meijden, E. van 3404, 4434
Dera Wadan 6155, 12885
Deragon, J. M. 11210
Derbyshire, E. 6976
D'Ercole, N. 7288-7289
Deren, C. W. 6448, 9229, 12106
Derenzini, M. 4628
Dereuddre, J. 740, 1219, 6534, 9668, 11029
Derieux, M. 5972
Derkx, M. P. M. 5784
DeRocher, E. J. 4464
DeRose, R. T. 8284
Derrida, B. 1222
Derron, M. 2289-2290
Desai, B. B. 3774
Desai, S. 9155
Desai, U. T. 6283, 6330
DeScenzo, R. A. 12624
Descourvières, P. 11187
Desfeux, C. 12446
Deshayes, A. 3491
Deshmukh, D. T. 10482-10483
Deshmukh, R. B. 1705, 1746, 2926-2927, 9422
Deshmukh, S. N. 3235, 4251
Deshmukh, S. V. 5887
Deshpande, A. A. 4082, 5197
Deshpande, S. S. 493
Desiderio, A. 5022
Desilets, H. 3374
Desjardins, P. R. 5468
Desjardins, Y. 1825, 3374, 10651, 12985, 12987
Deslauriers, H. 9940
Desponts, M. 5593
Després, C. 11815
Desprez, B. 9532, 12989
Desprez, M. 11141
Desprez, T. 1156, 7607, 9976
Desrosiers, M. F. 38
Dessaune Filho, N. 8170
Dessauw, D. 8575
Dessylas, D. 9957
Destefano-Beltran, L. 4549
Destro, D. 5385
Dethier Rogers, S. M. 8090, 8411
Detry, J. F. 1513, 1598, 1604
Dettori, M. T. 11974-11975
Deu, M. 12694
Dev, V. P. S. 6026
Devadas, V. S. 660, 6397, 7242
Devaiah, M. C. 5421
Devantier, B. P. 7056
Devantier, Y. A. 8598
Devaux, P. 3674, 3681, 12612
Develash, R. K. 3040
Devendra, R. 10876
Devera, S. 5348
DeVerna, J. W. 677
Devey, M. E. 3591, 12210-12211
Devi, D. 2233
Devi, D. R. 6926, 9172
Devi, D. S. R. 11602
Devi, J. 8710
Devi, M. T. 8799
Devi, R. 9352
Devi, S. N. 679, 10676
Devi Dayal 3237, 12085
Devine, T. E. 4994, 9362, 12852
Devlikamov, K. S. 2023
DeVos, D. A. 9517
Devos, K. M. 5841, 7729, 7837
Devreux, M. 5864
Dewald, C. 1471, 12688
DeWald, D. B. 8153, 10465
Dewald, S. 5989
Dewan, S. B. A. 11769
Dewar, R. E. 11487
Dewdney, J. 5778, 10011
Dexter, A. R. 8119
Dey, G. 10556
Dey, S. K. 571, 1461, 1466, 2750, 9151
Deynze, A. E. van 1947
Deynze, A. van 2337, 9666
DeYoung, J. 3054
D'Haeseleer, M. 10913
Dhagat, N. K. 381, 1304
Dhaliwal, B. K. 5927
Dhaliwal, H. S. 249, 1183, 1573, 1957, 2559, 5859, 6063, 6773, 7795, 12514
Dhaliwal, M. S. 1856
D'Halluin, K. 6084
Dhamdhere, S. V. 379, 5379
Dhamodaran, S. 6368
Dhanbir Singh 2912
Dhanda, R. S. 1321
Dhanju, K. C. 9397, 13039, 13044
Dhanju, K. S. 9153
Dhanvantari, B. N. 10510
Dhapke, S. K. 9692
Dhar, V. 10541
D'Harlingue, A. 10692
Dhatt, A. S. 747
Dhawale, B. C. 10824
Dhawan, A. K. 2013, 5376, 8518
Dhawan, K. 564
Dhed'a, D. 9616
Dhillon, B. S. 1390-1392, 1426, 1461, 1466, 2255, 3759, 9151, 11433
Dhillon, G. S. 7106, 9397, 11763
Dhillon, M. 13168
Dhillon, R. S. 5322
Dhillon, S. S. 3207
Dhillon, W. S. 13088
Dhiman, J. S. 9516
Dhiman, K. R. 7153, 10498
Dhindsa, G. S. 6873
Dhindsa, H. S. 12762
Dhindsa, K. S. 564
Dhindsa, R. S. 477, 4941
Dhindsa, S. 12577
Dhingra, M. 6565
Dhliwayo, H. H. 6009
D'Hont, A. 879, 8512
Dhonukshe, B. L. 4067
Dhopte, A. M. 12086
Dhumal, P. M. 11701, 12854
Dhumale, D. B. 10482-10483
Dhumre, A. D. 6359
Di, D. Y. 2081
Di, W. Z. 9737, 12161
Di Cola, G. 6841
Di Fonzo, N. 164, 1328, 5971
Di Gaetano, R. 11974
Di Giusto, F. 5279
Di Silvestro, S. 11434
Di Terlizzi, B. 3182
Di Tomaso, J. M. 3771
Di Vito, M. 695, 711, 6116, 8141, 11985
Dianese, J. C. 10995
Diao, G. Z. 941
Dias, J. S. 3044, 11865
Dias, L. A. S. 969
Diawara, M. M. 649-650, 3779, 9527
Diaz, A. 9873
Diaz, C. 3806
Díaz, C. L. 5044
Díaz, I. 2427, 5482, 7706, 12126
Díaz, J. 703
Diaz, L. E. 3933
Díaz, M. 12344
Díaz, O. 2901
Díaz D., M. 13328
Díaz de la Espina, M. S. 670
Díaz Plaza, R. 2893
Díaz-Ruiz, J. R. 13236
Dicenta, F. 13116
Dick, H. 9633
Dickey, L. F. 13210
Dickinson, C. 5453
Dickinson, D. B. 6139
Dickinson, H. 68, 1818, 3406, 6485
Dickinson, H. G. 1207
Dickinson, M. J. 3070-3071, 7231
Dickson, M. H. 4036
Dickson, R. E. 5522, 5545-5546
Dickson, R. L. 9814
Dickson, W. K. 9856
Dickstein, R. 11665
Didierjean, L. 5986
Diehl, S. V. 10832
Dieleman, F. L. 9529
Dieleman, J. 11855
Dien, M. P. van 1144
Dieng, A. 8085
Dierig, D. A. 12100
Diers, B. W. 9329-9330, 13125
Dietrich, A. 1131, 9976, 11802
Dietrich, P. S. 5989
Dietrich, R. A. 4596
Dietz, A. 52, 12139, 12263
Dietzgen, R. G. 5404
Díez, J. J. 4353
Díez, M. 7869
Diggle, A. J. 8072
Diggle, P. K. 5665
Digiaro, M. 3182, 8399
Digonnet, C. 1144, 6889
Dijk, G. E. van 116
Dijk, H. van 2032, 5433, 10907, 13189
Dijk, M. J. van 3404
Dijken, F. R. van 12260
Dik, M. T. A. 12260
Dilbagh Singh 696
Dilday, R. H. 11549
Dill, J. F. 3153
Dill-Macky, R. 8970
Dillen, M. van 6578
Dilley, D. R. 732, 10671
Dillon, M. O. 7472
Dima, A. 10760
DiMaio, J. 1764, 2705, 7661
DiMascio, J. A. 9254
Dimberg, L. H. 10202
Dimitrova, D. G. 10580
Dimitrova, V. 5291
Dimov, A. 7829
Din, N. 266
Dinakaran, D. 4877, 12089
Dinant, S. 8568
Dinelli, G. 2888
Diner, A. M. 5588
Dinesh Chandra 4250
Dineva, S. B. 10015
Ding, B. 4308
Ding, C. K. 11954
Ding, H. 2509
Ding, H. J. 8942
Ding, Q. S. 11494
Ding, S. K. 207, 12504
Ding, X. H. 1576, 6740
Ding, X. M. 12112
Ding, X. Y. 7314
Ding, Y. 1076, 2097
Dingkhun, M. 2763
Dingu, R. T. 8535
Diniz-Filho, J. A. F. 8830
Dinkins, R. D. 4594
Diouri, S. 8937
Dircks, L. 13001
Dirheimer, G. 6092
Dirkse, W. G. 1778, 5463
Dirlewanger, E. 8199
Dirr, M. A. 9853, 13332
Dirven, J. A. A. M. 10603
DiTomaso, J. M. 458
Ditterline, R. L. 1678, 2828, 2834
Divakaran, M. 7550
Diwan, N. 6075
Dix, P. J. 2036, 7540, 8530
Dixit, S. K. 12097
Dixon, A. G. O. 1144
Dixon, K. W. 8771, 9848
Dixon, M. 7231
Dixon, M. S. 3071, 13018
Dixon, R. A. 918, 1165, 2350, 3913-3914, 8559, 8790, 10422, 10425
Dixon, R. K. 3362
Dizengremel, P. 10552, 13266
Dizy, M. 5293
Djavanshir, K. 7467
Djerbi, M. 8450
Djordjevic, M. A. 12816
Dmitrieva, N. N. 7414
Do, N. 8865
Do, Y. Y. 12020
Do Nascimento Filho, F. J. 7311
Do Valle Ribeiro, M. A. M. 2788
Doan, D. N. P. 266
Dobariya, K. L. 4267
Dobert, R. C. 3959
Dobigny, A. 3013
Dobos, E. 6605
Dobrenz, A. K. 11667
Dobres, M. S. 5042
Dobriyal, N. D. 9794
Dobrosotskova, V. D. 2023
Dod, V. N. 4066, 4080, 10672-10673
Dodd, M. B. 4950
Dodd, R. S. 2115-2116, 6537
Dodd, W. A. 13091
Dodds, J. 2994
Dodds, J. H. 5135
Dodds, P. N. 4301
Dodge, A. 9951
Dodman, R. L. 1487
Dodson, C. H. 1029, 8716
Doebley, J. 328, 2684, 5833, 7976, 12689
Doebley, J. F. 4797, 11478
Doehlert, D. C. 11463
Doerffling, K. 6993
Doerner, P. 3521
Doerner, P. W. 11608
Does, H. de 7937
Does, M. P. 13212
Dofing, S. M. 8962, 12598
Doğan, M. 9274
Doglia, G. 13394
Dohmen, G. 3694
Doi, Y. 8948, 10805
Doijode, S. D. 10688
Doke, N. 3151, 5186, 8278, 8780, 9951
Dolan, C. V. 11233
Dolar, F. S. 2930
Doležel, J. 1191, 12253, 12437
Dolferus, R. 10060
Dolfini, S. 3719, 11454
Dolgacheva, V. S. 10798
Dolgikh, Yu. I. 9100, 9147
Dolgova, S. P. 1316
Dolgykh, Yu. I. 6901, 9100, 9147
Doliński, R. 4799
Dolotovskiĭ, I. M. 2317
Dolstra, O. 840
Dölz, A. 6870
Domaingue, R. 5407, 10897
Domański, L. 3000, 6242
Domański, P. 11642
Dombek, D. 9010
Dombrink-Kurtzman, M. A. 1446
Domier, L. 12633
Domier, L. L. 2564
Domin, M. 10930
Domingo, C. 8350, 13008

Domingo, I. T. 9240
Domínguez, J. R. 3960
Dominy, P. J. 12133
Domir, S. C. 11001
Dommée, B. 5619
Domon, C. 3217, 13143
Domon, J. M. 13303
Domoney, C. 5054, 6180, 6183, 6193, 11751
Don, C. T. 10053
Don Nguyen, M. 8030
Donald, A. 6352
Donald, C. M. 3615, 12330
Donaldson, E. 173
Donaldson, J. S. 6703
Donaldson, L. A. 12217
Donaldson, P. A. 8550
Doney, D. L. 2025, 2033
Dong, F. G. 197
Dong, H. P. 3613
Dong, J. F. 11296
Dong, J. G. 2531, 3484
Dong, J. S. 9813
Dong, J. Z. 3333, 8641
Dong, K. 4888
Dong, L. Y. 6665
Dong, W. 11937
Dong, W. M. 6816
Dong, Y. C. 11624
Dong, Y. H. 9578
Dong, Y. J. 2736
Dong, Y. S. 1279, 3580, 4654, 8063, 12539
Dong, Y. Y. 8581
Dongol, B. B. S. 7990
Dongre, B. N. 12085
Dongre, T. K. 11776
Donini, B. 103, 5250, 5864
Donini, P. 7796
Donkers-Venne, T. H. M. 4452
Donn, G. 7688, 10058
Donne, G. delle 9382
Donnelly, D. J. 1899, 9590
Donnenwirth, J. 2296
Donoghue, M. J. 3937, 11253-11254, 12458
Donough, C. R. 9684
Donovan, A. 9525
Donovan, A. M. 13049, 13052
Dons, H. J. M. 6347, 7228, 13348
Dons, J. J. M. 1144, 3420, 4073, 11196, 13359
Donson, J. 5478
Donya, V. P. 11049
Doonan, J. 110
Doonan, J. H. 5800, 8696
Dooner, H. K. 9040, 12417
Doorn, W. G. van 13362
Doorsselaere, J. van 5538, 7436
Dopazo, J. 11250, 12456
Dorairaj, M. S. 6934
Doraiswamy, S. 5202
Doran, J. C. 5531
Đorđević, R. 12901
Doré, C. 1940, 4027, 8303, 10642
Dörffling, K. 3761, 5888
Döring, H. P. 7902, 9039
Dorion, N. 5552, 10759
Dorji, C. 10389
Dormann, M. 2666
Dormling, I. 5596, 8634, 8640
Dornelas, M. C. 4197, 7313
Dorofeeva, L. V. 10083
Dorofteĭ, V. I. 10788
Dorokhov, D. B. 10657
Doronin, V. A. 5427
Doroszewska, T. 5455
Dorp, M. van 5829
Dörr, I. 11810
Dorregaray, F. 7697
Dorweiler, J. 328
Dos Santos, H. L. 1485, 3777
Dos Santos, J. B. 5028, 7099, 8304, 12872
Dos Santos, M. X. 6879
Dos Santos, O. S. 4829, 11740
Dos Santos, R. R. 3651, 4142
Dosba, F. 9648, 13421
Dosdall, L. M. 12054
Dost Mohammad 3615, 4221, 6004
Dostál, J. 8671
Dotlačil, L. 2281, 10071
Dotray, P. A. 3771
Dou, X. T. 11727
Douce, R. 1731, 10647
Douches, D. S. 5092, 6244, 7160, 9458
Doudrick, R. L. 8632
Dougherty, W. G. 4310, 9733, 9970
Doughty, J. 1818
Doughty, K. 6352
Douglas, A. C. L. 1482, 4869, 7979
Douglas, G. B. 7017
Douglas, G. C. 12189-12190
Douglas, N. 7639
Douglass, L. 937
Doumas, P. 12186
Doung, C. 9660
Doupnik, B., Jr. 3952
Dourado, V. V. 5016
Dourojeanni, M. J. 968
Doussinault, G. 7733
Doust, M. A. 7802
Dove, S. K. 5799
Dover, G. A. 5816
D'Ovidio, R. 1318, 5022, 7728, 8883, 12548
Dow, J. M. 1959
Dowd, J. M. 8622
Dowd, P. F. 10301
Dowdle, E. B. D. 13335-13336
Downey, R. K. 818-819, 8482, 9659, 13120, 13135
Downie, B. 8765
Downie, J. A. 6191
Downie, S. R. 6564
Doyama, N. 10351
Doyle, J. 4137, 8407
Doyle, J. A. 11254
Doyle, J. F. 5247
Doyle, J. J. 495, 3981, 12925
Doyle, M. 7079
Doyle, S. 2196, 3407, 6580
Dozet, B. 7184, 7340, 7354, 11854
Dozet, B. M. 7336
Dracup, M. 2304
Draganić, M. 2688
Dragavtsev, V. A. 2284, 10120
Dragula, S. K. 8659
Dransfield, J. 5341
Drapeau, R. 1644
Draper, A. D. 4149
Draper, J. 45, 554, 4293, 4593, 6674, 9277, 10653
Drdák, M. 781
Dreccer, M. F. 10092
Dreiseitl, A. 2636-2637
Drennan, J. L. 8271
Drepper, W. J. 12683
Dresselhaus, T. 7884
Dressler, K. 1144, 1230
Dressler, R. L. 9900
Dreven, F. van 9251
Drew, M. C. 10288-10289
Drew, R. A. 10816
Drewes, F. E. 4448
Dreyer, H. M. 11775
Dreyer, T. 6820
Dreyfuss, B. W. 8185
Drezner, W. 4526
Dridze, I. L. 5462, 7560, 11276
Driedger, D. R. 9388
Drijepondt, S. C. 8932
Drøbak, B. K. 310, 5799
Drochioiu, G. 6897
Dröge-Laser, W. 9973
Dron, M. 2890, 6167, 8174, 12883
Drong, R. F. 2328
Droste, A. 4991
Druart, P. 10718
Druka, A. 5628
Drummond, B. J. 3750, 9028
Dryden, G. M. 8290
Drzewiecki, J. 12349
D'Silva, I. 8462
D'Souza, L. 8462
D'Surney, S. J. 3949
Du, H. 4301
Du, H. P. 12774
Du, J. A. 3701
Du, J. J. 6301, 9584
Du, J. S. 8238
Du, Q. X. 12655
Du, R. W. 7995
Du, S. 8098
Du, W. F. 5827
Du, W. G. 1702, 2873, 11727
Du, X. M. 13239
Du Cros, E. T. 4351, 8611
Du Jardin, P. 5031
Du Plessis, J. G. 1429
Du Plessis, W. 1096
Du Plooy, C. P. 12011
Du Preez, R. J. 10818
Du Puy, D. J. 7069
Du Toit, F. 10151
Du Xuan Truong 1600
Dua, R. P. 559
Duan, C. H. 12958
Duan, C. J. 6016, 12709
Duan, G. E. 11714
Duan, M. J. 10962
Duan, N. X. 6411, 10885-10886, 12088
Duan, W. D. 9178
Duan, X. G. 7034
Duan, Y. J. 2771
Duan, Y. S. 4666
Duara, P. K. 691, 1847, 3082
Duarte, J. B. 12881
Duau, Z. W. 7391
Dubald, M. 959, 2673
Dubas, A. 11468
Dubbels, S. 841
Dubcovsky, J. 470, 4923, 7701, 7749, 8081, 11533
Dubey, B. K. 8298
Dubey, D. K. 1743, 1745
Dubey, K. C. 5098, 5106
Dubey, P. S. 10124
Dubich, Z. I. 2041
Dubin, H. J. 8876
Dubois, J. 1826, 5161
Dubois, L. A. M. 13348
Dubouzet, J. G. 10634
Dubravec, K. 6892
Dubtsova, G. N. 10114
Duc, G. 532, 4978, 5057, 11733, 12898
Duc Bui Dang Ha 8698
Duce, A. 4746
Duchesne, L. C. 2148
Duclos, A. 13346
Ducos, C. 13418
Ducreux, G. 2954, 2985, 10626
Ducrocq, C. 5662
Ducroquet, J. P. H. J. 11968
Duczek, L. J. 7715
Dudai, N. 7556
Dudareva, N. 3217
Dudas, B. 8107
Dudeck, A. E. 10415
Dudienas, C. 2896, 9370
Dudits, D. 5355, 5955, 7050
Dudley, J. W. 4841, 7940, 7942, 11438-11439, 11473
Dudley, M. 332, 9046-9047, 10248
Dudley, T. R. 2157
Dudnikov, A. I. 2573
Dudnikov, A. J. 2573
Duell, R. W. 9266
Duffek, J. 5215
Duffus, C. M. 12521, 13410
Dufour, M. E. 10007
Dufrêne, M. 13380
Dugdale, L. J. 4016
Duhoux, E. 7452
Dúhová, V. 10037
Duich, J. M. 9271
Duijn, B. van 268
Duijnhouwer, I. D. C. 6818
Duitas, C. 1144
Dujon, B. 4294
Duke, J. A. 4994
Duke, L. H. 13421
Duke, S. H. 11463
Dukes, P. D. 3030, 8216
Dukic, S. 884
Dulberger, R. 2101
Dulić-Marković, I. 3139, 7273
Dulieu, H. 3286, 8166, 13367
Dulieu, P. 8166
Dulson, J. 4063, 5930
Dumas, B. 5469
Dumas, C. 1144, 1195, 2261, 2680, 3042, 3553, 3742, 4825, 5539, 6889
Dumas, R. 10647
Dumas de Vaulx, R. 4105, 5208
Dumas-Gaudot, E. 9731, 10522
Dumbre, A. D. 4258, 10861-10862
Dumbroff, E. B. 2333, 12466
Dumet, D. 12067
Dumont, M. 5087
Dumont, R. 12315
Dumoulin, V. 11759
Dunand, R. T. 386, 1517
Dunavan, S. L. 11483
Dunbar, K. B. 864
Dunbar, L. J. 787
Duncan, N. 9454
Duncan, R. R. 3780, 4866-4868, 6913, 7981, 9176, 11165, 12452
Dundas, I. 6871
Dunez, J. 3302, 3310, 5446, 5474, 10947
Dunford, R. P. 4754
Dunlap, J. M. 8600
Dunlop, J. 1661, 7055
Dunn, L. J. 4141
Dunn, M. A. 272, 3669, 5919, 7713, 8964
Dunn, N. 1928-1929
Dunsmore, K. M. 2441
Dunsmuir, P. 3293, 6498, 8565
Dunstan, D. I. 4559, 8641, 11030
Dunwell, J. M. 1215
Duong Thanh Tai 7994
DuPont, F. M. 7839
Dupou-Cézanne, L. 9780
Dupuis, I. 306
Dupuis, J. M. 8284
Duque, M. C. 12772
Duque Cortés, F. 7722, 8494, 9008
Duque-Vargas, J. 5982
Durairaj, C. 1721, 7259
Duran, V. 11028
Duran-Vila, N. 803
Durand, J. 2813
Durand-Gasselin, T. 6395, 12067
Durel, C. E. 7437, 11020, 12428
Duren, M. van 6318
Düring, H. 5298
Düring, K. 35, 2979, 6239, 7602
Ďurišová, L'. 4685
Duron, M. 740
Durr, A. 9727, 10934, 12402
Durrani, F. A. 194
Durrant, A. 7425
Duryea, M. L. 8635
Dušek, K. 5672
Dusi, D. M. A. 959
Dussán, L. E. 11547
Dutilleul, P. 5162
Dutra, L. M. C. 420
D'Utra Vaz, F. B. 11881
Dutta, M. 1334
Dutta, O. P. 1880
Dutta, P. 8532
Dutta, P. K. 13393
Dutta, R. K. 11766
Dutta, S. 10556
Dutta, S. K. 5421
Duval, H. 5244
Duval, Y. 12067
Duvall, M. R. 1645, 2398, 2400, 5825, 6071
Duvall, R. 1862, 8372

Duvick, D. N. 8158, 9353, 11149, 11160, 11722, 12355
Duwadi, V. R. 4848
Dvořák, J. 2523, 6769, 7701, 7749, 8081
Dvorak, W. 8757
Dvorak, W. S. 7477, 7483
Dwivedi, A. K. 9852
Dwivedi, J. L. 421, 1595-1596, 2755
Dwivedi, K. 7419
Dwivedi, N. K. 9611
Dwivedi, S. L. 7362
Dwyer, L. M. 10218, 11466
Dyagileva, A. V. 9975
Dyakunchak, S. A. 3797
Dybing, C. D. 9350, 9760
Dyck, P. L. 2560, 6797, 7723-7724, 10144, 12575
Dyer, A. T. 8274
Dyer, D. 12051
Dyer, T. 9988
Dyer, W. 8061
Dyer, W. E. 2784, 3869, 5392, 5934, 7868, 12599, 12637
Dyke, C. G. van 10295
Dykes, J. 12805
Dylenok, L. A. 10099
Dymock, N. 7056
Dynes, R. A. 7054
Dyrek, W. 10125
Dzhalilova, F. Kh. 1164
Dziamba, S. 11765, 12908
Dziewońska, M. A. 615, 7169
Dzyubetskiĭ, B. V. 6875
E, W. S. 9194
E Silva, K. M. B. 1399
E Silva, P. S. L. 1399
Eady, C. 8330
Eagles, D. A. 3892, 6096
Eagles, H. A. 5950, 9296, 11674
Eagling, D. R. 2795
Ealing, P. M. 8107
Eapen, S. 4259, 6419, 8214, 10332, 10875, 13160
Earle, E. D. 4075, 7216, 8307
Early, J. D. 5396
Earnshaw, D. M. 3243
Eastburn, D. M. 2687, 7965
Eastwood, R. F. 2574, 7793, 7831
Eathington, S. R. 12865
Eaton, G. W. 3461, 8420
Eaton, N. 2570
Ebe, S. 9706
Ebe, Y. 387
Ebel, J. 525, 2872
Eber, F. 7324, 12037, 13126
Eberhart, S. A. 11418
Ebida, A. I. A. 4093
Ebinger, J. E. 5554
Ebmeyer, E. 10494-10497, 10499
Ebrahim-Nesbat, F. 3345
Ebskamp, M. J. M. 8553, 10574
Echarte, A. M. 1640
Echeverría, M. 9493
Echeverría, O. M. 670
Echim, T. 4483
Echt, C. S. 7048
Eckard, K. J. 1822
Ecker, J. R. 12414
Ecker, R. 3214, 8682-8683, 11065
Eckerskorn, C. 986, 4816, 9524
Eckert, C. G. 4467, 9908, 11064
Eckert, J. W. 10179
Eckert-Ossenkopp, U. 62, 10001, 12405
Eckes, P. 7688, 10058
Eckhart, V. M. 7510
Eckhoff, J. L. 11371
Edelbaum, O. 10683, 10949
Eden, J. van 7217-7218
Ederer, W. 11734
Edington, B. R. 10512
Edington, B. V. 3307
Edlund, A. 7401
Edmeades, G. O. 3748, 5972, 7952-7954, 9109
Edminster, C. W. 9858, 11055
Edwards, A. 9951
Edwards, C. G. 5097
Edwards, D. G. W. 7486
Edwards, E. A. 6173, 8783
Edwards, G. E. 3542, 10937
Edwards, J. H. 2365
Edwards, J. W. 5047
Edwards, K. 8525
Edwards, K. E. 12114
Edwards, K. S. 7468
Edwards, M. D. 11143
Edwards, N. T. 3949
Edwards, P. J. 260
Edwards, T. J. 1685, 8130
Edwin, R. 298, 6872
Eeuwijk, F. A. van 3010, 6463, 11866
Efremov, A. A. 6767
Egan, B. T. 6627
Egawa, Y. 3990, 12533, 12749
Egea, J. 3131
Egelkrout, E. E. 974
Eger-Hummel, G. 4501
Egerton-Warbuton, L. M. 9783
Egertsdotter, U. 7487
Eggermont, K. 10718
Eggum, B. O. 2844, 11597
Egidy, G. 7890, 11434
Egli, D. B. 9344
Eguiarte, L. E. 979, 2215, 2398, 2400
Eguiluz Piedra, T. 5585
Ehara, H. 10277
Ehdaie, B. 7758-7759, 12537
Ehlenfeldt, M. 11992
Ehlenfeldt, M. K. 6230, 13077
Ehleringer, J. 8173
Ehmann, B. 5760
Ehrenbergerová, J. 4766, 10171
Ehrlich, K. C. 1130
Eiben, H. G. 2886, 5739
Eichacker, L. A. 7845
Eichel, J. 2219, 8733
Eichhorn, M. M., Jr. 9262
Eicker, A. 3439
Eigenbrode, S. D. 8354, 13021
Eiguchi, M. 1590, 2740
Eijazuddin 1892
Eijlander, R. 11811, 11814
Eikenbary, R. D. 2569
Eilenberg, H. 8725
Eira, M. T. S. 12284
Eisemann, R. L. 2301
Eisen, J. A. 11441
Eisenbeiss, G. K. 2157
Eĭsner, G. I. 643
Ėisner, G. I. 12156
Eĭsner, G. I. 12972
Eissenstat, D. M. 10055
Eitenmiller, R. R. 6420, 11851
Ejeta, G. 12374
Ejiri, S. I. 12720
Ek, B. 4208, 11394
Ekanayake, I. J. 2754, 5135
Ekberg, I. 5595-5596, 8640
Ekramoddoullah, A. K. M. 11027
Eksomtramage, T. 2009
Eksperimentinė Biologija 3448
Ekstein-Michelson, I. 9553
El-Ballal, A. S. 11860
El-Barkoky, F. Z. 10817
El-Batsri, R. 4185
El-Bendary, A. A. 9087
El-Din, T. M. S. 4707
El-Din Sharaf El-Din, N. 8142
El-Doweny, H. H. 5206
El-Filali, H. 7307
El-Fouly, M. M. 8137, 9087
El-Gamal, A. M. 5206
El-Hassanie, A. A. 7308
El-Hissewy, A. A. 7004
El-Houmaizi, M. A. 7308-7309
El-Imam, Y. M. A. 1050
El-Jaafari, S. 3474, 7585
El-Kassaby, Y. A. 2135, 5604, 7486, 7493-7494, 9807
El-Kassas, S. E. 10817
El-Kharbotly, A. 7166
El Moneim, A. M. A. 9306
El-Mtili, N. 8807
El-Naimi, M. 3652
El-Nasr, M. M. S. 12991
El-Reimlein 11362
El-Sayed, S. F. 1113, 1842
El-Sharkawy, M. A. 8288-8289
El-Sherbeeny, M. H. 529
El-Shourbagy, M. S. 11860
El-Sonbaty, M. R. 10817
El-Tahir, I. M. 1871, 7208
El-Zain, E. A. 9173
El-Zik, K. M. 3326
Elamo, E. 7848
Elbar, Y. 10455
Elborough, K. M. 4680
Elden, T. C. 9379
Eldridge, K. G. 7574
Elen, O. N. 4734, 6775
Elfving, D. C. 5225, 8380
Elgersma, A. 4917, 10397
Elgersma, D. M. 3076
Elgin, J. H., Jr. 1074
Elhag, H. 12693
Elias, L. G. 9388
Elich, T. D. 10023
Elings, A. 3640, 8891
Elisens, W. J. 5640
Elkins, M. E. 10457
Ella, E. S. 1579
Ellebracht, A. 12147
Elleman, C. 1818
Eller, N. 2055, 2072
Ellersiek, U. 12465
Ellerström, M. 4204
Ellett, C. W. 2169
Elliot, R. 2196, 6580
Elliott, G. A. 4655, 8958
Elliott, L. G. 5989
Elliott, T. J. 4500, 4507, 4510, 8748
Ellis, C. K. 5027
Ellis, J. 956, 7624
Ellis, J. G. 5985
Ellis, J. R. 9998
Ellis, M. F. 5529, 9774
Ellis, P. R. 34, 8312
Ellis, R. H. 512, 1819, 5835, 6973, 9342-9343, 10532, 11711, 11768, 11778, 12838, 12843-12844
Ellis, R. J. 8185
Ellis, R. P. 1366, 2620, 4874, 5849, 5913, 7847, 12607, 12618
Ellis, T. H. N. 6169, 6173, 6176, 6183, 6193
Ellis R. H. 11782
Ellison, F. W. 3634, 7746-7747
Ellison, J. R. 7410
Ellissèche, D. 2946, 3011
Elloran, R. 6033
Ellsbury, M. 9305
Ellstrand, N. C. 100, 628
Elmayan, T. 13233
Elmer, A. M. 12853
Elmore, R. W. 3952
Elmstrom, G. W. 3091
Elovson, R. 4781, 6843
Elphinstone, J. 8264
Elphinstone, J. G. 7593, 11836
Elsen, J. 12427
Elsen, J. M. 12428
Elsidaig, A. A. 3664, 8945
Elster, R. 6577, 12621
Elston, R. C. 12431
Elsy, C. R. 8034
Elumalai, R. P. 5736
Elzen, P. J. M. van den 921, 8564, 13212
Elzen, P. van den 5115
Emeric, G. 10647
Emershad, R. L. 13057
Emery, J. P. 11826
Émile, J. C. 1437
Emmelo, J. van 2066
Emmermann, M. 9453, 10674
Emons, A. M. C. 7937, 9121
Emori, Y. 6023
Enache, D. 10782
Enard, C. 6173
Enari, T. M. 5905
Encheva, J. 846
End, M. J. 6472
Ende, J. E. van den 3046, 10644, 10851
Endo, M. 1001, 8590
Endo, S. 206
Endo, T. R. 181, 1282, 6813
Endre, G. 7051
Endress, P. K. 7520
Endt, D. 3467
Enescu, V. 13254
Enevoldsen, M. 8323
Engel, R. E. 9858
Engelborghs, I. 632
Engelbrecht, M. C. 3292
Engelen, F. A. van 4013
Engelen, F. van 1803
Engelke, M. C. 3906, 5627, 6072, 11055
Engelmann, F. 1218, 3233, 6328, 12067, 13093
Engels, F. M. 259
Engels, J. M. M. 1879, 1881, 6373, 12609
Engle, L. M. 4049
Engle, V. S. 8718
Engler, G. 1159, 3513, 3526, 4313, 10006, 10017, 12135
Engler, J. 10017
English, J. 7231
English, J. J. 7210
Engqvist, G. 4200
Engqvist, G. M. 1954, 3191
Engqvist, L. G. 7118
Enguita, I. D. 7049
Ėnno, T. 2474
Enno, T. 10098
Ennos, R. A. 8845, 9823
Enomoto, S. 4305
Enríquez, A. 12407
Enriquez, A. L. D. 10026
Enriquez, G. L. 8756
Entsch, B. 8217
Ephritikhine, G. 909
Epikhov, V. A. 11762
Épinat, C. 13029-13030
Epperson, B. K. 1175, 1179, 4599
Epplen, J. T. 7598
Erb, W. A. 3062, 3078, 4149-4150, 8423, 9595
Erba, M. L. 11962
Erbes, D. L. 13237
Ercoli, L. 5137, 7796
Erdös, P. L. 5824
Ereifej, K. I. 232
Eremin, G. V. 10744
Erfle, J. 8091
Ergashev, A. K. E. 7414, 8576
Erickson, L. 8098
Ericsson, N. A. 11948
Eriksson, G. 5596, 8640, 9767
Eriksson, I. 7325, 8472
Eriksson, M. 12447
Eriksson, O. 4636
Eriksson, T. 1046, 5550
Eris, A. 11980
Ermakov, E. I. 2498
Ermakov, I. P. 2070, 5460
Ernst, D. 986, 8639
Ernst, R. 7572
Ernst, W. H. O. 6578
Errampalli, D. 2567, 3524
Errico, A. 686, 699, 709-711, 3968, 6108
Erskine, W. 6199, 8206, 11161, 11768, 12909
Ertekin, A. S. 12824
Ertl, J. R. 4554
Erwin, D. C. 11668
Escalante, E. E. 6132-6133
Escandón, A. S. 6361
Esch, J. J. 4592
Escobar, L. K. 13115
Escobedo Mendoza, A. 7344
Escudero, J. 12136
Esele, J. P. 2710
Esen, A. 1647, 3901, 7916, 7921
Eshanna, M. R. 5493
Eshbaugh, W. H. 12922

Eshed, Y. 9553, 13009
Eshel, A. 7556
Eskes, A. 2049
Eskes, A. B. 4287, 7385, 8536, 10919
Eskridge, K. M. 7877, 10087, 10112, 11342
Esmenjaud, D. 10715
Esnard, J. 11858
Espagnol, M. C. 11210
Espartero, J. 9548
Esparza, L. C. 3314
Espejo, A. 8723
Espejo Serna, A. 8723
Espelie, K. E. 868, 4854, 6910-6911
Espelund, M. 11378
Esperance, M. 12698
Espín, A. 8361
Espino, E. 13221
Espinosa Calderón, A. 11446
Esquerré-Tugayé, M. T. 2310, 6279
Esquinas-Alcázar, J. 3464
Esquinas-Alcázar, J. T. 19
Esquivel, M. 12339-12340, 12342-12344, 12871, 12966, 13158, 13419
Esselink, G. 10399
Esser, H. J. 7456
Essig, F. B. 5574
Estañ, M. T. 4071, 7229
Estefanel, V. 11740
Estelle, M. 11188
Estes, L. A., Jr. 3371
Estevá, J. 11905
Estilai, A. 4270, 12180
Estill, K. 2828
Estrada S., E. I. 13420
Estrella, J. E. 10633
Estruch, J. J. 910
Etévé, G. 6195, 11759
Ethirajan, A. S. 5416, 7373
Etim, L. 12916
Etoh, K. 3827
Etoh, T. 10634
Ettinger, W. F. 12403
Eubanks, M. 7906, 7946, 7969
Euler, F. von 6546
European Association for Potato Research 13411
European Brewery Convention 6622
Evans, C. S. 9795
Evans, D. E. 2865
Evans, D. W. 7426
Evans, E. J. 5882, 8479, 8483
Evans, G. J. 2052
Evans, G. M. 7870
Evans, I. M. 8183, 9989
Evans, J. 11263
Evans, J. R. 931, 13229
Evans, L. T. 12329
Evans, N. E. 611
Evans, P. R. 13055
Evans, R. 11024
Evans, S. N. 2366
Evans, T. E. 1675
Evans, W. C. 1050
Evard, J. L. 3217
Evenson, K. J. 12791
Evenson, L. 11466
Evenson, P. D. 3770
Evers, A. D. 8902, 11318
Evers, R. W. 2264
Everson, D. O. 10598
Evstigneeva, T. A. 13019
Ewald, A. 12268
Ewald, D. 4376, 12183
Ewing, R. J. 7963
Excoffiier, L. 11251
Expinoza, M. 4181
Eyal, H. 8364
Eyal, Y. 2054
Eyal, Z. 8923
Eycken, W. van der 6281
Eyers, M. 8525
Eyherabide, G. 303
Eynard, I. 778
Eyquard, J. P. 5248
Ezura, H. 714, 3083
Ezz, T. 10787
Ezzahiri, B. 8937
Fabijanski, S. F. 1943
Fabri, C. O. 2351
Fabrizius, M. A. 12666
Facanha, A. R. 10552
Faccini, N. 2433, 2661
Faccioli, P. 2345
Fady, B. 7492, 8646
Faedi, W. 5274, 7288-7289, 10772
Faeti, V. 4279
Fagan, M. 10023
Fagnytt Hagebruk 5121
Fahey, J. W. 10898
Fahleson, J. 7325, 8472
Fahri, H. 5829
Faiguenbaum, H. 10513
Failla, O. 5287, 6309
Faingersh, E. 4133
Fairbairn, D. 10836
Fairbrother, T. E. 3924
Faivre-Rampant, P. 5542
Faiz, F. A. 439, 1566, 12742
Fakir, M. S. A. 7137
Faktor, O. 2350
Falahati-Rastegar, M. 6794
Falavigna, A. 688
Falbel, T. G. 7709
Falcinelli, M. 7028, 11661
Falcone, D. L. 11191
Falconet, D. 8188
Faleri, C. 11814
Falfus, J. 11683
Falk, A. 4208
Falk, J. 273
Fallieri, J. 5492
Fallot, J. 4107, 5292, 11847
Falque, M. 10924
Falqui, D. 11979
Faluyi, M. A. 2845
Fambrini, M. 5384, 8496
Fan, C. Z. 11266
Fan, H. Q. 1527, 2752
Fan, H. R. 6120
Fan, L. 196, 3609
Fan, L. A. 5850
Fan, M. J. 3500
Fan, S. G. 2733
Fan, Y. L. 2847
Fancelli, M. 5154, 7200
Fang, F. 8004
Fang, G. W. 3090
Fang, J. H. 11153
Fang, Q. X. 11313
Fang, Q. Y. 4886
Fang, R. 7740
Fang, Y. M. 3798
Fang, Y. W. 3919
Fanigliulo, R. 4072
Fanizza, G. 4162
Fanourakis, N. E. 11933
Fantes, V. 3499
Fantini, A. C. 12532
Fantz, P. R. 4968-4969, 9886, 13371
Faqir Gul 6155
Faranda, S. 12656
Farcy, E. 3412, 4440, 13367
Farestveit, B. 3395
Fári, M. 662, 8528
Farih, A. 8922
Farinelli, L. 3301, 10600
Faris, D. G. 9423
Farish, G. 7933
Farkaš, B. 7336
Farmer, E. E. 6268
Farmer, R. E., Jr. 2118, 9824
Farnden, K. J. F. 8118
Farnham, M. W. 4032
Farook, S. A. 1969
Farook, T. T. 1969
Farooq, S. 4727
Farooqi, A. A. 1059
Farooqui, A. 5193
Farooqui, K. D. 4121
Farquhar, G. D. 3619, 6425
Farrar, R. R., Jr. 3079, 9555
Farrell, M. 11882
Farshadfar, M. 8885
Fasoula, D. A. 11252
Fassihiani, A. 3072
Fassuliotis, G. 1857
Fatkhullaeva, G. N. 3323
Fatokun, C. A. 1869
Fatta del Bosco, S. 4177
Fauquet, C. 12744
Fauquet, C. M. 3019
Faure, J. 6990
Faure, J. D. 8554
Faure, J. E. 2680, 6889
Faure, O. 8428
Fauré, S. 5311-5312, 12812
Fauron, C. M. R. 5959, 10232
Fauth, R. 2545
Favret, E. A. 2557
Fawcett, T. 8183
Fay, M. F. 8853
Fay, P. K. 2784, 3869, 7868, 8061
Faye, L. 8247, 13303
Fayolle, C. 11366
Fazli, H. 4940
Fazuoli, L. C. 4283, 5442
Fear, C. D. 11943
Febles, G. 3933
Febrero, A. 12605, 12608
Fechina, V. A. 11664
Fečíková, H. 6669
Fedak, G. 2587, 3692, 4733, 7743, 10169, 11635, 12633
Fedenko, V. S. 10278, 10280
Federer, W. T. 2369
Federizzi, L. C. 6864, 12532
Fedorenko, Ė. N. 10278
Fedorishchev, V. N. 10182
Fedoroff, N. 924, 7887-7888, 9049
Fedoroff, N. V. 5965
Fedotov, I. S. 3354
Fedotova, Yu. S. 10208, 12645
Feger, M. 2872
Fehér, A. 5355
Fehr, W. R. 1708, 8157-8158, 9353, 11722
Fehrmann, H. 2529, 6784
Fei, C. W. 395
Feierabend, J. 8979
Feil, B. 5942, 5981, 10118, 11493
Feil, J. P. 4634
Feingold, S. 7697
Feitosa Teles, F. F. 10619
Feix, G. 1716, 6885, 7941, 8855, 10234, 12658
Fejes, E. 5858, 5868
Fekete, S. 5355
Feldman, M. 3603
Feldman, M. W. 6682, 8826-8827
Feldmann, K. 5781
Feldmann, K. A. 1154, 5780, 5782, 5789, 7642, 12415
Feldmann, P. 879, 2009, 8512
Feldmar, S. 3729, 5964
Felício, J. C. 4739, 6741
Felipe, M. R. de 4315
Felix, G. 486
Felker, F. C. 1444
Felsenstein, F. G. 4778, 12570
Felsenstein, J. 2394, 8859
Feltkamp, D. 9997, 10590
Femenias, N. 5976
Fender, S. E. 1840
Feng, H. 8305
Feng, Q. 902
Feng, Q. H. 3027
Feng, Q. L. 10450
Feng, T. Y. 4297
Feng, X. H. 1699, 12154
Feng, X. Y. 870, 1994
Feng, Y. X. 6430
Feng, Z. 10628
Feng, Z. X. 622
Fennell, A. 602
Fennoy, S. L. 9012, 11437
Fenoglio, G. 3394
Fenster, C. B. 999, 9909
Fenton, R. D. 143
Fenwick, G. R. 5049, 6093
Fenwick, R. 12475
Feoli, C. E. 7348
Fereres, E. 32, 6730
Fereres, S. E. 10863
Ferhatoğlu, Y. 9641
Ferhi, A. 5586
Ferl, R. J. 653, 7881
Fernandes, G. M. B. 1520
Fernandes, J. B. 5070
Fernandes, K. V. S. 588
Fernandes de Melo, D. 10552
Fernandez, A. 12227
Fernández, H. 5657
Fernández, J. 9880
Fernández, J. A. 3479, 8953
Fernández, J. R. 10199
Fernández, M. C. 13156
Fernandez, M. R. 10135
Fernández, R. 2226
Fernández-Calvín, B. 12582
Fernández Hérnandez, P. 9392
Fernández-López, J. 10506
Fernández-Martínez, J. 3221, 6362
Fernando, R. L. 12431
Fernando, Sh. S. 5675
Fernet, C. 1644
Ferrant, V. 12115
Ferrão, M. A. G. 5016, 8170
Ferrão, R. G. 8170
Ferrara, E. 9612
Ferrari, G. 3757
Ferrario, S. 352, 1470, 9168, 12687
Ferraris, R. 890
Ferreira, A. S. 2712
Ferreira, C. M. 5437
Ferreira, D. F. 4622, 11737
Ferreira, D. I. 5651
Ferreira, M. E. 3047, 13124
Ferreira, P. 3435, 3513, 10017
Ferreira, R. M. 5016
Ferreira A. Neto, J. 11510
Ferreira Filho, A. W. P. 3650
Ferrer, A. 4587
Ferrer, E. 6838
Ferreres, F. 2228
Ferret, A. 11474
Ferris, C. 8596
Ferris, S. 8435, 9614
Ferro, P. 2986
Ferwerda, F. 11858
Fery, R. L. 8216, 8223
Fetch, T. G., Jr. 5921
Fett, J. P. 12401
Feuerle, R. 4023
Feuillet, C. 8588
Feys, B. J. F. 10030
Feyter, R. de 5473
Fichtner, K. 6493, 13226
Ficnar, S. 555
Fida Muhammad 4811, 4830
Fidan, A. E. 13157
Fiddler, T. A. 12210
Fideghelli, C. 5250, 7269, 11976, 12308
Fiebich, D. 7512
Fiedorow, Z. 4103
Fieldes, M. A. 7425
Figdore, S. 6250
Figdore, S. S. 3047, 4028
Fighetti, C. F. 9895
Figueira, A. 3276, 4288
Figueiras, A. M. 7871
Figueiredo, M. de 7026
Figueras, M. 7919
Figueras, X. 7938
Figueroa R., M. 2842
Filatov, P. A. 5426
Filatova, E. P. 5426
Filetici, P. 5758
Filgueiras, T. S. 470, 3903, 4936-4937, 7045
Filion, W. G. 11413
Filipek, J. 11638
Filipowicz, A. 5058
Filipowicz, W. 4579, 5777
Filippa, E. M. 1853
Filippone, E. 610, 684, 11736
Filippov, G. L. 11495
Filippov, S. N. 11411
Filiz, N. 3092
Filmer, B. 6209

Fimbel, R. A. 8621
Finan, P. M. 9401
Finch, I. 2036, 8530
Finch, R. P. 435
Fincher, G. B. 266, 1344, 11379
Fincher, R. 11442
Findlay, J. B. C. 9401
Findlay, K. C. 5799
Findley, W. R., Jr. 11421
Finer, J. 1831
Finer, J. J. 4987, 7080
Fineschi, S. 9646
Fink, G. R. 71, 8814
Finkel, D. 12270
Finkeldey, R. 7435
Finkelstein, R. R. 7651
Finland, Foundation for Forest Tree Breeding 7564
Finlay, K. W. 9471
Finn, C. E. 3146, 11993-11994
Finn, R. F. 5755
Finnegan, J. 956
Finnerty, S. L. 9331
Fins, L. 8649
Finstad, K. 476
Fiore, M. C. 9556
Fiorella, S. 12058
Fiorentino, S. 2451, 5020, 10501
Fiorino, P. 5398
Fioritto, R. J. 1714, 10456
Firek, S. 45, 554, 4293
Firmin, J. L. 6183
Firoozabady, E. 4426, 8680
Fischbach, A. 3369
Fischbeck, G. 1345, 10191, 12625
Fischbeck, H. C. G. 4778
Fischer, C. 3115
Fischer, D. B. 3308
Fischer, H. 12483
Fischer, H. E. 896, 2030
Fischer, I. 13025
Fischer, K. 4816, 9524
Fischer, K. S. 1986-1987, 1989
Fischer, M. 11945
Fischer, R. 8492
Fischer, R. A. 7783, 11279
Fischer, R. L. 672, 3545, 7642, 9541
Fischer, U. 11217
Fisher, C. R. 3300
Fisher, D. K. 307
Fisher, J. A. 2519, 2522
Fisher, M. 8673
Fisher, R. 6697
Fitchen, J. 5471
Fitzmurice, W. P. 7392
Fitzpatrick-McElligott, S. 12394
Fiume, F. 10695
Fjeld, T. 4411, 12241
Flach, M. 2239
Fladung, M. 2979, 3994, 5109, 6239, 10570
Flagella, Z. 1328
Flamand, M. C. 11733
Flanagan, L. B. 5598
Flavell, R. 11282
Flavell, R. B. 3574, 3592, 4562, 11175
Fleck, J. 1156, 9727, 10934, 12402
Fleck, P. 295
Fleege, L. 5717
Fleming, A. J. 4216, 10666
Fleming, P. 5608
Fleming, T. H. 4463
Fletcher, D. S. 1480-1481
Fletcher, J. 2567
Flett, B. C. 10298
Flewelling, J. 5607
Flick, C. E. 4819
Flickinger, N. J. 3078
Flieger, K. 8310, 12977
Flinck, K. E. 11046
Flinn, B. S. 7485
Flint, H. M. 6523, 9755
Flintham, J. 8902, 12509
Flintham, J. E. 12534
Flipse, E. 2969, 11804
Floate, K. D. 7448
Floh, E. I. S. 5437
Flønes, M. 5120
Flood, J. 13149-13150
Flood, R. G. 2489, 11142
Flor, P. 6581
Florack, D. E. A. 5463, 6653
Flore, J. A. 1903
Flores, Z. M. 1613, 8053
Flores Revilla, C. 9395
Flori, A. 13146
Florijn, P. J. 6899, 9145
Florin, B. 5118
Floris, R. 11629
Floss, E. L. 6864
Floss, H. G. 5608
Flügge, U. I. 4816, 9524, 11821
Fluhr, R. 2054
Flygh, G. 9816
Foale, M. A. 2250, 3231
Fobert, P. 5800
Fobert, P. F. 2326
Fobert, P. R. 8696
Fogher, C. 317
Foley, L. 5874
Foley, R. C. 60
Folkerts, O. 6585, 7612
Folsom, M. W. 1810
Fomchenko, N. S. 6788
Fomenko, T. I. 6709
Fong, C. K. 4344
Fonollá, J. 8194
Fonseca, C. 12952
Fonseca, M. E. N. 1738
Fonseca Júnior, N. S. 7076
Fonseka, H. H. D. 9421
Fonzo, N. di 164, 1328, 5971
Food and Agriculture Organization 4345, 4347, 4354, 4540
Food and Agriculture Organization/IAEA Plant Breeding & Genetics Section 5832
Foolad, M. R. 8337
Foote, T. 7693, 11282
Forbes, G. A. 8279
Forbes, G. S. 3373
Forchioni, A. 2065
Ford, V. S. 3391
Ford-Lloyd, B. V. 2028, 5753, 8125, 8437, 12391
Ford-Santino, C. 5991
Forde, B. 1522
Forde, B. G. 3670, 11189
Forde, M. B. 7025
Fordham-Skelton, A. 9989
Fordham-Skelton, A. P. 5149, 8183
Foreman, J. W. 3254
Forer, A. 12439
Forestry Research Support Programme for Asia and the Pacific 11128
Forêt-Entreprise 13252
Forino, L. M. C. 4691
Forkmann, G. 1019, 3562
Formanová, M. 11403
Fornaciari, M. 7554
Forni, E. 11962
Foroughi-Wehr, B. 111, 123, 7710, 12463
Forrest, G. I. 8584
Forrest, J. M. S. 7847
Forsberg, J. 5358
Forsberg, R. A. 4790, 6858, 12311
Forsline, P. L. 9567
Forster, B. P. 2585, 3888, 5849, 6823, 12606-12607, 13162
Forster, C. 6183, 6193, 11751
Forster, J. W. 2648
Forster, P. I. 4402, 4466, 6527, 12282, 12294
Forsthoefel, N. R. 12279
Fortin, J. 737
Fortin, M. G. 8418, 12383
Fosket, D. E. 7079, 9948, 10039
Foss, E. 4627
Fossati, A. 1388, 2660, 5942, 11695, 12863
Fossati, D. 1388, 2660, 5942
Fossen, M. 9561
Fossey, A. 1641
Foster, E. 2199, 2266
Foster, G. 4593
Foster, G. S. 3367, 9829, 13271
Foster, J. D., Jr. 6524
Foster, J. E. 263, 8946
Foster, K. R. 12692
Foster, L. M. 13400
Foster, M. A. 2108
Fothergill-Gilmore, L. A. 4265
Foti, S. 11874
Fotso, M. 12917
Fougat, R. S. 5067
Fouilloux, G. 12432
Foulkes, M. J. 5889
Foulley, J. L. 12428
Fouman, A. 4859, 4870
Fourie, C. J. 10818
Fourie, P. C. 13090
Fournier, J. 6279
Fournier, J. Y. 744
Fournioux, J. C. 5289
Fowden, L. 8758
Fowke, L. C. 3353, 13314
Fowler, C. 1106
Fowler, D. B. 10130, 11163
Fowler, M. R. 5808-5810, 12323
Fowler, N. L. 10414
Fownes, J. H. 6331
Fox, G. L. 7648
Fox, G. P. 12472
Fox, J. A. 11923
Fox, P. N. 29, 7720, 7783, 8874
Fox, S. V. 13238
Fox, T. W. 7934, 9074
Foxon, G. A. 13228
Foy, C. D. 4994, 12561, 12862
Foyer, C. H. 3286, 6487, 6491, 9951, 11187
França, J. G. E. 11528
France, Institut Technique des Céréales et des Fourrages 11304
France, Station d'Amélioration des Plantes Maraîchères d'Avignon-Montfavet 1071
France, Union Nationale Interprofessionnelle des Légumes Transformés 6156-6157, 10611
Franceschi, D. de 8451
Franceschi, V. R. 6265
Franci, C. 72
Francis, D. 2053
Francis, D. M. 3051
Francis, P. R. 9173
Francisco, P. B., Jr. 523, 11729
Francisco-Ortega, J. 5085, 8125
Franck, P. 178
Franckowiak, J. 4770
Franckowiak, J. D. 1352, 1358, 2609
Frank, D. W. 9895
Frank, S. A. 11168
Frank, Z. R. 12090
Frankard, V. 8808
Franke-van Dijk, M. E. I. 921
Frankel, R. 3057
Franken, J. 1144, 3415, 5749, 12265
Franken, P. 3717, 5961, 10235
Franklin, A. E. 3527, 8811
Franklin, F. C. H. 3041, 3428
Franklin, T. 9986
Franklin, T. M. 4210, 6344
Franklin-Tong, V. E. 3428, 7541, 9916
Franqueville, H. de 6407
Franssen, H. 521
Franssen-Verheijen, M. A. W. 2213-2214
Fransz, P. F. 8306, 11866
Franzetti, B. 4038
Franzmann, B. A. 361-362, 1489, 2713
Franzmann, L. H. 3524, 12418
Franzone, P. M. 2557
Frappier, J. R. H. 3743, 9020-9021, 9024
Frary, A. 4075
Frascaria, N. 3184, 5339-5340
Frascaroli, E. 1396, 12686-12687
Fraser, J. A. 11960
Fraser, M. L. 9857, 11052, 11055
Fraser, P. D. 10668
Frattarelli, A. 4151
Frattini, F. 4652
Frauen, M. 3193
Fray, R. G. 666, 7215, 13006
Frayssinet, N. 12296
Frazer, E. J. 3422-3423
Frazier, B. E. 4670
Frederick, J. R. 10480
Frederickson, D. E. 9179
Frederiksen, R. A. 2710, 2712, 3765, 3778, 6942, 6944, 6948-6949, 10311
Frederiksen, S. 7039, 7745
Frediani, M. 4691, 5022, 9268
Freeling, M. 1187, 3457, 3721, 5840, 7903, 7920, 9086, 12675
Freeman, J. 5363
Freestone, R. E. 6121
Fregeau-Reid, J. 179, 351, 4733, 7779
Fregoni, M. 4161
Frei, U. 9456, 12463
Freire, J. A. H. 5141
Freire, M. A. 1420, 5960
Freitas, R. W. A. 12284
Frencel, I. 2915
French, E. R. 8264
French, J. H. 8755
Frendo, P. 5986
Frentzen, M. 8187
Frese, L. 2024, 2283, 10902
Freve, A. 744
Frew, T. J. 12902
Frey, K. J. 3686, 3691, 6648, 11288, 11400, 12632
Frey, L. 7041, 8092-8093
Frey, M. 919, 5966, 7904
Frey, T. 2872
Freyer, R. 309, 10231
Freymark, P. J. 5988, 11504
Freyre, R. 7160
Freyssinet, G. 7405
Friday, A. 11259
Friebe, B. 1336, 2572, 7750, 8925, 8940, 8944
Fried, P. M. 6778
Friedman, M. 11800
Friedman, R. B. 9138
Friedman, W. E. 5803
Friedrich, L. 936, 2075, 2266, 5464, 5742
Friedt, W. 1373, 2598, 3215, 3218, 3451, 3684, 5342, 7353, 7862
Fries, A. 12214
Fries, J. C. de 1181
Friesen, N. 4026
Friis, E. M. 11255
Friis-Hansen, E. 4524
Frink, C. 11181
Frira, D. 7307
Friry, A. A. 3042
Frison, E. A. 3229, 6857, 7265, 13408
Fristensky, B. 4214
Frisullo, S. 2511
Fritea, M. 7065, 10441, 12821
Fritig, B. 2057, 5469, 6505-6507, 6629
Fritsch, P. 11184
Fritsch, R. 7676
Fritz, A. K. 6813
Fritz, D. 7552
Fritz, M. 13209
Fritz, R. S. 4352
Frodin, D. G. 7457
Froelich, R. C. 8631
Frohlich, A. A. 12569
Frohnmeyer, H. 5760, 7553, 11109, 12298
Froidmont, F. 10194
Frolov, V. D. 11031
Fromm, H. 4812
Fromm, M. 5957

Fromm, M. E. 3724, 5899
Fromme, F. J. 2657
Frommer, W. 11192
Frommer, W. B. 3497, 3999, 6232, 8246, 10577, 11223, 11821, 12413
Frommhold, D. 12183
Fromusoh, E. S. 8873
Frontczak, J. 4827-4828
Froseth, J. A. 10180
Frost, D. L. 5882
Froud-Williams, R. J. 5886, 5927
Frova, C. 352, 1214, 9168, 12687
Frugis, G. 13211
Frühling, M. 4998
Fründt, C. 5456, 9730
Frusciante, L. 1783, 5086, 6194, 9459, 10572, 11820
Fry, D. J. 12189-12190
Fry, J. D. 2190, 10416-10417
Fry, W. E. 8274
Fryer, J. 11046
Frykman, I. 2605
Fu, B. X. 12542
Fu, C. X. 2221, 9220
Fu, G. D. 12943
Fu, J. 2751
Fu, P. 10786
Fu, S. Z. 10838
Fu, T. D. 12043
Fu, X. L. 9210
Fu, Y. 4624
Fu, Y. B. 9866, 12434
Fu, Y. H. 9357-9358
Fu, Y. X. 6684, 8840
Fuchs, J. 8165
Fuchs, R. L. 5755
Fuente, J. M. de la 5037
Fuente, V. de la 12794
Fuente-Martínez, J. M. de la 3290
Fuentes, L. T. 1599
Fuentes, S. I. 475
Fuentes, V. 7548
Fuentes-Dávila, G. 8929, 10139-10140
Fuentes P., R. 1252
Fuhr, G. 7474
Fuhrer, J. 11164
Fuhrmann, J. J. 11723
Fujieda, K. 11037
Fujigaki, J. 2649
Fujii, C. 6038
Fujii, N. 10612, 10932
Fujii, T. 7475
Fujiie, A. 10408
Fujimoto, F. 480, 6057, 12784
Fujimoto, H. 447
Fujimoto, S. Y. 8122, 12822
Fujimura, T. 393, 3826, 10273
Fujino, Y. 1020
Fujisawa, I. 13033
Fujita, H. 9581
Fujita, K. 12435
Fujita, M. 216, 2482, 12501
Fujita, T. 9720, 9920, 10927, 12155
Fujita, Y. 12962
Fujiwara, T. 6123, 7640, 9335
Fukasawa, K. 5083
Fukazawa, C. 9337, 13323
Fukuchi, A. 3813, 12738
Fukuda, A. 11558
Fukuda, C. 7180
Fukuda, H. 1800, 4417, 9911
Fukuda, K. 10177
Fukuda, N. 5152
Fukuda, Y. 7404
Fukui, H. 11086
Fukui, K. 6824, 8002, 9338, 11575
Fukui, T. 3049
Fukumori, Y. 10910
Fukumoto, F. 8352
Fukuoka, H. 8001, 12745, 12956
Fukuoka, S. 8005, 10354
Fukushima, Y. 1354
Fukuya, H. 12962
Fukuyama, T. 12628
Fulcher, R. G. 1380, 3688
Fulkerson, W. J. 12790
Fuller, M. P. 6252
Fulzele, G. R. 3235
Funatsuki, H. 10176-10177
Fundora, Z. 12344
Funes, F. 3933
Fung, M. 11263
Funk, C. R. 3386, 9856-9857, 11052-11053, 11055
Funk, D. C. 9856
Funke, R. P. 12832
Fuong, F. T. 5937-5938
Furbeck, S. M. 4322, 8574
Furcsik, S. L. 9138
Furgał-Węgrzycka, H. 8201-8202
Furini, A. 8669, 12621
Furnier, G. R. 2398, 7446, 8601
Furstoss, V. 1455
Furtado, F. P. 9778
Furtek, D. 10655
Furtek, D. B. 13199
Furusawa, I. 3306, 10951
Furusawa, S. 7223
Furusho, M. 276
Furuta, Y. 2431, 2446, 5873, 6038, 7751, 11326
Furuya, M. 1136, 2571, 4061, 7645, 8024, 11095, 13224
Furuya, N. 1175
Furuya, T. 12435
Fuse, T. 6995
Fushimi, T. 9199
Fuss, A. M. 9801
Fussell, C. P. 108
Fusswinkel, H. 5964
Futai, M. 8810
Futers, T. S. 3593
Futsuhara, Y. 5073, 12732, 12739
Fyffe, L. 8268
Gabardo, N. P. 651
Gabelman, W. H. 3015
Gäbler, L. 10569
Gaborit, T. 4974, 5052
Gáborjányi, R. 4850
Gabriel, W. 87, 8839
Gabrilavičius, R. 3363
Gabryś, H. 7646
Gadakh, S. R. 10690
Gadal, P. 11183
Gäde, H. 2280
Gadek, P. A. 2398, 5610
Gadekar, D. A. 4067
Gadewar, A. V. 10594
Gadzhieva, S. A. 10208, 12645
Gaetano, R. di 11974
Gaffe, J. 10667
Gaffey, P. M. 4019
Gaffney, J. J. 12324
Gaffney, T. 2075, 2266, 5464, 5742
Gafni, Y. 681, 2151, 11895
Gafny, R. 4308
Gage, D. A. 12146
Gaget, M. 5539
Gaggiotti, M. C. 11524-11525
Gagliardo, R. W. 10061
Gagnon, Z. E. 5522
Gahukar, R. T. 12697
Gai, J. Y. 1710, 2854, 2866, 7083, 11697, 11717-11719
Gaignard, J. L. 11981
Gaili, E. S. E. 9173
Gaillard, A. 1144
Gaina, L. V. 1259
Gaiser, J. C. 674
Gaisne, C. 7161, 13109
Gajdošová, A. 5600, 10167
Gal, S. 4581
Galán, I. 7400
Galán, V. 8441
Galasinski, S. 9724
Galasso, I. 9269
Galau, G. A. 8572, 11274
Galaud, J. P. 4469, 4471
Galaup, S. 7488
Galbiati, M. 9098, 11454
Galdames G., R. 9249-9250
Gale, J. 351, 10304
Gale, M. 7693, 11282
Gale, M. D. 3574, 5841, 5939, 7703, 7729, 7739, 7812, 7836-7837, 12535
Galeffi, P. 5470
Galen, C. 8684
Galerne, M. 11029
Galetto, L. 2069
Galiba, G. 3643
Galili, G. 1250, 4292
Galinat, W. C. 10263-10264, 10281-10282, 11451, 11477
Galindo, C. 1633
Galitsyn, A. 11267
Galkin, A. N. 4665
Gall, O. le 5474
Gallagher, A. 13229
Gallais, A. 2261, 2294, 12428
Gallardo, G. S. 6272
Gallardo, M. 6730
Galle, A. M. 12382
Gallego, F. J. 7871
Gallegos Torres, R. 227
Gallerani, R. 12058
Galletta, G. J. 8422
Galletta, J. A. 4152
Galletti, S. 12686
Galliano, H. 986, 8639
Gallie, D. R. 1133, 4014, 8011
Gallino, M. 6614
Gallo, J. 5453, 12904
Gallo, P. B. 6741
Gallo-Meagher, M. 3258
Gallois, P. 7711
Gallon, J. R. 5709
Gallwitz, D. 7623
Galmarini, C. R. 9498
Galston, A. W. 3643, 11885
Galterio, G. 4652
Galun, E. 8781, 9951
Galván, G. 9497
Galvẽas, P. A. de O. 8170
Galvez, A. F. 2523, 8081
Gálvez, M. 1813
Galwey, N. W. 8219
Galyon, F. B. 5617
Gama, E. E. G. e 6879, 6887
Gambhir, P. N. 237
Gambi, E. 4161
Gambley, R. L. 6455
Gamborg, O. L. 12743
Gamzikova, O. I. 7687
Gan, J. X. 790
Gan, Y. Y. 13110
Gan, Z. F. 285
Ganal, M. 1843
Ganal, M. W. 4075
Ganapathi, T. R. 12008, 12297
Gandecha, A. 4293
Ganders, E. S. 959
Gandhi, A. P. 860
Gandhi, S. 11691
Gandin, C. L. 9503
Gandolfo, M. A. 5575
Ganesan, K. 1593, 11550
Ganesh, R. 12098
Ganesh, S. K. 12099
Ganeshaiah, K. N. 3979
Ganeshan, S. 800, 4169
Ganeva, G. 4698, 5871
Gang, D. Y. 3854
Gangadharan, K. 12099
Ganghadharan, K. 3978
Gangopadhyay, S. 5078
Ganguli, D. K. 1305
Ganguly, A. 8801
Gantet, P. 2890, 8174
Gantt, J. S. 316, 3915, 11657
Gantt, S. 3910
Gantz, D. M. 4062
Gao, C. X. 2773
Gao, D. M. 3860
Gao, F. 797
Gao, F. L. 10473
Gao, H. G. 11552
Gao, J. 10027
Gao, J. W. 7386
Gao, K. 10766
Gao, L. 230
Gao, L. J. 2531
Gao, L. R. 2779
Gao, M. J. 1287
Gao, M. W. 1581, 2746, 8888, 9224
Gao, P. P. 10560
Gao, Q. K. 9224
Gao, S. F. 10274
Gao, S. G. 8904
Gao, S. J. 354
Gao, W. D. 11494
Gao, X. W. 3331, 4340
Gao, Y. 2742, 12269
Gao, Y. Z. 409
Gao, Z. 11718
Gao, Z. R. 1419
Garay, L. 13086
Garba, A. 9182
Garbarino, J. E. 5089, 11800
Garbe, V. 8486
Garbers, C. 312
Garcha, H. S. 4489
Garcia, A. B. 12757
García, F. J. 7491
García, H. 7398-7400
García, J. E. 13116
García, P. 1633, 12636
García, S. 5245
Garcia, T. B. 7311, 13111
García Cuevas, B. 5526
García del Pino, F. 9634
García-Dorado, A. 8825
García Esquivel, C. G. 9891
García-Férriz, L. 6550
Garcia-Garcia, F. 5838
García-López, J. L. 8490
García-Maroto, F. 2953, 5482
García-Olmedo, F. 3479, 3668, 4746, 5693, 8953, 12126, 12478
García Vallejo, M. C. 9939
García Velázquez, A. 7122
Gardenhire, J. H. 3667
Gardeström, P. 7401
Gardiner, J. M. 7880
Gardingen, P. van 5727
Gardner, C. O. 4948
Gardner, J. C. 9175
Gardner, M. 12205
Gardner, R. C. 1909, 3646, 4163, 6312, 7251, 11355
Gardner, R. G. 3060, 4051-4052
Gardzeĭ, G. M. 6874
Gardzeĭ, Ī. A. 6874
Gareau, R. M. 7320
Garg, D. K. 6757
Garg, R. 3984
Garg, V. K. 9279
Garner, D. 4137
Garnier, P. 3744
Garnock-Jones, P. J. 8661, 11045, 13341
Garoosi, G. A. 5062
Garrec, J. P. 7488
Garrett, C. M. E. 13052
Garrido, D. 2072, 3975
Garrido-Ramos, M. 7206
Garrido-Ramos, M. A. 7524
Garrigue, L. 3302
Garrity, D. P. 9432
Garro A., J. E. 7989
Garstang, J. R. 13410
Gartland, J. S. 12322-12324
Gartland, K. M. A. 12322-12323, 12323-12324
Gartner, A. 1691, 2055
Garvey, E. J. 2161
Gasch, A. 5449
Gascon, F. 9195
Gašić, O. 4699, 4701
Gaspar, C. 4748, 5072
Gaşpăr, I. 8867
Gaspar, J. C., Jr. 10619
Gaspar, T. 4471
Gass, T. 11695, 12850
Gasser, C. S. 2385, 6484, 12403
Gataulina, G. G. 1664
Gatehouse, J. A. 4571, 5213, 5709
Gates, P. 6149, 10051
Gates, R. N. 1636, 7987, 10400
Gatto, M. 4605

Gatz, C. 8544-8545, 13209
Gau, T. G. 7545, 12289
Gaubier, P. 1812
Gaude, T. 1195, 3042
Gaudet, D. A. 7808
Gaudin, V. 3495, 12392
Gaugecz, J. 971
Gauhl, F. 8435
Gault, R. R. 522
Gaur, J. P. 5306
Gaur, P. C. 10578-10579
Gaur, R. B. 573
Gause, K. 7202
Gausing, K. 12604
Gaut, B. S. 2398, 2400, 4835, 5825, 11260, 12699
Gautam, D. R. 4119
Gautam, P. L. 1334, 6787, 11365
Gautam, V. K. 1055
Gautier, M. F. 7733, 8882
Gava Ferrão, M. A. 5016
Gavalda, M. C. 7198, 8287
Gavazzi, G. 8429, 9098, 11454
Gavish, N. 10683
Gavrikova, L. I. 5637
Gavrilets, S. 4601, 4604, 4608, 8834
Gavrishov, N. 11267
Gavuzzi, P. 164
Gawęcka, M. 10732, 13051
Gawel, N. 3029
Gawel, N. J. 787
Gawen, L. M. 5616
Gawley, J. R. 13309
Gawrysiak, G. 6509, 8575
Gay, G. 2671, 3625, 12491
Gaydou, E. M. 5327
Gayen, P. 7129, 9125-9126, 10556
Gaynor, J. J. 965
Gazaryan, I. G. 11664
Gazit, S. 1919, 4184-4185, 9630, 12019
Gbur, E. E. 8921
Gdala, J. 10523
Ge, B. 5319
Ge, J. P. 436, 6049
Ge, K. L. 399, 2732
Ge, Q. Y. 1423
Ge, X. R. 7276
Gebala, B. 12260
Gebeyehu, G. 8918
Gebhardt, C. 2976, 5117, 7166, 8260, 11834
Gebre, G. M. 8605
Gébré-Selassié, K. 3086-3087
Geburek, T. 2043, 8585, 9769, 9784
Gecheff, K. 12596
Gee, M. 11209
Gee, M. A. 506, 6128
Geerinck, D. 8293
Geerts, A. 10590
Geest, A. H. M. van der 13206
Geetha, C. K. 9635
Gehlen, J. 3996
Gehring, J. L. 465, 12251
Geiger, H. H. 2622, 2655-2657, 2659, 6868-6870, 7873, 10246
Geisler, G. 10174
Geiss, K. T. 8311
Gelder, W. J. M. van 3010
Gelder, W. M. J. van 7778, 12546
Gelderblom, W. C. A. 10680
Gelderen, D. M. van 7575
Geletu Bejiga 2925, 6205
Geli, M. I. 12661
Geltink, G. K. 11625
Gelvin, S. B. 12657
Gelvonauskienė, D. 3112
Gelvonauskis, B. 3112-3113
Gémes-Juhász, A. 12882
Gençer, O. 9739
Genchi, G. 1280
Genestier, S. 7175
Genetic Resources Action International 6641
Geng, P. T. 189
Geng, Q. H. 3648
Genga, A. 12656
Gengenbach, B. G. 4786
Genizi, A. 2137
Genot, G. 5986
Genschik, P. 10934, 12402
Gentile, A. 3177
Gentry, A. H. 4359
Gentry, R. 758
Geoffroy, P. 2057, 5469, 6505-6506
George, K. C. 5310
George, K. M. 4894, 12072
George, L. 4259, 6419, 8214, 10332, 10875, 13160
George, P. 10865
George, P. J. 12179
George, S. T. 9635
George, T. E. 6336, 6338
Georges, D. 4396, 4398
Georges, F. 7627
Georgescu, A. 1781
Georgiev, S. 12596
Georgieva, E. I. 7935
Georgieva, I. D. 7914
Georgieva-Todorova, Ĭ. 7342
Georgieva-Todorova, J. 7342
Gepstein, S. 2333
Gepts, P. 2894, 8176, 9384, 9427, 12879
Gerard, J. F. 5794
Gerats, A. G. M. 13368
Gerats, T. 1237, 4423
Gerbens, F. 682
Gerber, S. 12212-12213
Gerder, M. 13174
Gerdes, J. T. 5947, 5949
Gereau, R. E. 13289
Gergon, E. B. 8054
Gerhold, H. D. 2264
Geri, C. 12133
Gerick, E. 4473
Gerlach, W. 5473
Gerlach, W. L. 12127
Germain, E. 5336, 9645, 9648
German, S. E. 6797
German, T. L. 10952
Germano, F. 13394
Germany, Bundesanstalt für Züchtungsforschung im Wein- und Gartenbau in Siebeldingen/Pfalz 1069, 6621
Germany, Bundesministerium für Ernährung, Landwirtschaft und Forsten 5691, 5696
Gerrath, J. M. 4399, 11846
Gerstenkorn, P. 4715
Gerster, J. L. 5354
Gertnere, D. 3375-3376
Gertsson, B. 10837
Gerwin, M. 1166, 4596, 5787
Gessler, C. 2306, 7257, 8387
Gesteland, R. F. 1698
Getinet, A. 8482
Gévaudan, S. 12613
Gevers, H. O. 1393, 1429, 1436, 1441, 3769, 9158
Gevrek, M. N. 4879
Ghaemi, M. 4710, 7771, 8905, 10113
Ghaffari, H. 2943-2944
Ghafoor, A. 1742
Ghai, B. S. 1741
Ghai, T. R. 13039
Ghanekar, A. M. 10539
Ghanekar, S. L. 3992
Ghanta, P. K. 3179
Gharremani-Nejad, F. 1684
Ghatge, R. D. 10533
Ghawghawe, P. B. 7151
Gherbin, P. 5488
Ghesquière, M. 3232, 12788-12789
Ghetia, N. R. 3239
Gheysen, G. 4313, 5788, 6281, 11237
Ghidra, V. 10725-10726, 10739-10740
Ghijsen, H. C. H. 11625
Ghimiray, M. 1521
Ghiorghis Habtemariam 7988
Ghiorghis H/Mariam 7988
Ghislain, M. 8808
Ghodki, B. V. 7302
Ghorpade, P. B. 4863, 5992
Ghose, S. K. 1939
Ghosh, B. 8727
Ghosh, P. K. 6526
Ghosh, S. 9216, 12466
Ghosh, S. K. 7183, 10846
Ghosh, S. N. 6337, 10835
Ghulam Idrees 10860
Giacometti, D. C. 3463
Giamoustaris, A. 3206, 6349
Gianfagna, T. J. 4124
Gianfranceschi, L. 1470, 3767, 9026, 9152
Gianinazzi, S. 551, 2910, 9731, 10522, 10812
Gianinazzi-Pearson, V. 551, 2910, 8196, 10522
Gianinetti, A. 9545
Giannasi, D. E. 8796
Giannattasio, R. B. 12940-12941
Giannelli, G. 5262, 11966, 11977
Giannerini, G. F. 3104
Giannini, R. 4365, 5578
Giardina, M. C. 4316, 12948
Gibb, K. S. 8368
Giblin-Davis, R. M. 3907
Gibson, D. 9591
Gibson, J. P. 7579
Gibson, R. W. 10622
Gibson, S. 46, 11191
Gibson, T. 10424
Gichner, T. 10016
Gidamis, A. B. 3942
Giddanavar, H. S. 11773
Gieffers, W. 5109
Gielen, J. 5538, 12757
Gierl, A. 919, 5966, 7904
Gieselmann, C. 11410
Gifford, D. J. 4824
Gigot, C. 1156, 9982, 12398
Gijzen, M. 6135, 9808
Gil, J. 10534, 11680
Gil, L. A. 11023
Gil, M. I. 2228
Gil, P. 7647
Gil, Z. 4803-4804
Gil de Serpa, M. 11043
Gil Ortega, R. 708
Gilbert, H. 11248
Gilbert, I. 147
Gilbert, J. 2539, 6243, 6502
Gilbert, M. L. 6917
Gilbert, R. Z. 13031
Gilbert-Albertini, F. 4111
Gilbertson, R. L. 2894
Gilchrist, D. 8347
Giles, B. E. 2192
Giles, L. C. 5917
Gilissen, L. J. W. 3098, 8329
Gill, A. 10653
Gill, B. S. 181, 1282, 1336, 1348, 1849, 2476, 2572, 3605, 6773, 6813, 7700, 7750, 7752, 8925, 8939-8940, 10131, 10142
Gill, D. S. 1768, 6206, 11542
Gill, G. S. 8072
Gill, H. S. 5084, 5147
Gill, J. J. B. 4016
Gill, K. S. 22, 25, 181, 1201, 1282, 1348, 2528, 2559, 6773, 6813, 7795, 11350, 12514
Gill, M. A. 9235
Gill, M. S. 283, 2090, 5501
Gill, R. 4399, 12236
Gill, S. S. 388, 1849, 12846
Giller, K. E. 10882
Giller, Yu. E. 5496
Gillespie, G. R. 3890
Gillespie, J. H. 5817
Gillespie, T. J. 13159
Gillet, E. 2150
Gillett, J. M. 11670
Gilmartin, P. M. 6170
Gilmore, S. 56
Gilmour, R. F. 4656
Gilson, J. C. 4748
Giménez-Abián, M. I. 8300
Giménez-Ferrer, R. M. 8423, 9595
Gingera, G. R. 8931
Ginkel, M. van 6770, 7783, 8918
Gins, V. K. 4773
Ginsburg, S. 10506
Ginzburg, Ė. Kh. 4598
Giolo, M. 10396
Giorda, L. M. 6930, 6954
Giordani, C. 3055, 11562
Giordani, E. 5262, 11966
Giordano, L. B. 1734, 1738, 6280
Giorgetti, L. 1240
Giorgi, B. 5864
Giovannetti, M. 551
Giovannini, T. 5091
Giovannoni, J. J. 9541, 10663, 11883
Giovinazzo, G. 2885
Gipson, R. D. 4201, 4651
Gíraldez, R. 4796, 8980
Girardin, P. 10323
Giraudat, J. 67, 1156, 5769, 7630, 7657
Giri, S. P. 9208
Giridharam, M. P. 2232
Giridharan, S. 7992
Girko, V. S. 1248
Girona, J. 8754
Girousse, C. 11669
Giroux, M. 5973
Giroux, M. J. 7894, 9084
Girton, L. E. 3746
Gisel, A. 156, 7738, 7770, 11310
Gislerød, H. R. 4411, 12241
Gissel-Nielsen, G. 8965
Giuliano, G. 665, 8496
Giulietti, A. M. 7547
Giunchedi, L. 7819
Giura, A. 12595
Giusto, F. di 5279
Givovich, A. 260
Gizbullin, N. G. 5429
Gladkova, V. N. 12239
Gladstones, J. S. 1663
Gland, A. 2622
Glascock, C. 936, 3289
Glass, A. D. M. 73, 2510, 3637
Glass, K. M. 6725-6726, 6881, 6915, 7024, 7077
Glaszmann, J. C. 879, 2009, 8512, 12694
Glaz, B. 12106
Glazebrook, J. 1167
Gleba, Y. Y. 923, 8114, 12932
Gleba, Yu. Yu. 923, 2059, 8114, 12932
Gleddie, S. C. 8550
Gleed, J. A. 2264
Glicenstein, L. 1028
Glick, B. R. 2322, 3454, 12466
Glimelius, K. 3196, 4206, 5358, 7325-7326, 8472, 10935
Glinka, Z. 11393
Glover, B. J. 12261
Glover, D. V. 1439
Głowacz, E. 10133
Glucina, P. 11959
Glushka, J. 2266
Glushko, V. V. 10278, 10280
Gmitter, F. G. 3173
Gmitter, F. G., Jr. 3174
Gnagne, Y. 367
Gnanamanickam, S. S. 8041
Goasdoue, C. 204
Goasdoue, N. 204
Goblet, J. P. 11733
Gocho, H. 245, 6422
Godard, N. 740
Godawat, S. L. 369
Goday, A. 1420, 5960, 7637, 7919
Goddard, N. J. 3669, 5919, 7713, 8964
Godden, D. 7581

Goddijn, O. J. M. 3531, 4470, 8732
Goderis, I. 10718
Godfray, H. C. J. 10050
Godhani, P. H. 262
Godin, B. 5552
Godo, T. 659
Godon, C. 8188, 10931
Godoy Júnior, G. 4272
Godt, M. J. W. 488
Godwin, I. 566, 2708
Godwin, I. D. 1475, 1751, 11849, 12391
Goebel-Tourand, I. 5290
Goeft, A. 2309
Goel, A. K. 8747
Goertzen, L. R. 2835
Goethe, J. W. 10041-10042
Goetting-Minesky, P. 4361
Goff, S. A. 5957
Goff, W. D. 5338
Goffinet, B. 2370, 7664, 12428
Gofflot, A. 13198
Goffreda, J. 738, 5932, 13076
Goffreda, J. C. 4124, 8409
Goffreda, M. 645
Goffreda, S. 3120
Gogorcena, Y. 803, 4157
Goh, C. J. 4453, 7321, 8619
Gohar-Khay, S. 5254
Goheen, A. C. 3167
Gohil, R. N. 3871
Gohil, S. 4366
Goicoechea, P. G. 4796, 6728, 8980
Golakia, P. R. 1984
Golasangi, B. S. 8218
Gold, C. 8435
Gold, C. M. 12521
Goldbach, R. 9967
Goldbach, R. W. 10916
Goldberg, R. B. 2384, 12141
Goldblatt, P. 1021, 4450
Golden, A. M. 10940
Goldfarb, B. 6538
Goldman, D. H. 2819
Goldman, I. L. 1737, 7942, 11473
Goldman, M. H. S. 2066, 12141
Goldman, N. 4642, 11259
Goldman, S. 10359
Goldmark, P. J. 12520, 12805
Golds, T. J. 3680
Goldsbrough, A. 13003
Goldsbrough, A. P. 5170, 7599
Goldsbrough, P. 3276
Goldsbrough, P. B. 4012, 7522, 10028
Goldschmidt, E. 11946
Goldstein, D. B. 8827, 12454
Goldstein, I. J. 632
Gołębiowska-Małek, H. 10125
Golebiowski, T. 3203
Golenberg, E. 2398
Golenberg, E. M. 7610
Goli, A. E. 1874
Goli, K. 1874
Goliáš, J. 10794, 11704
Goliński, P. 2915
Gollnow, B. I. 12016
Gollotte, A. 551, 10522
Golmirzaie, A. M. 11790, 11844
Goloborod'ko, P. 13251
Gološin, B. 9643
Goloubinoff, P. 11436
Golovin, V. P. 10305
Golovkina, I. N. 5271
Golovko, T. K. 5095
Golubovskaya, I. 1413, 9056, 12667
Golubovskaya, I. N. 7911
Golubowicz, S. 4173
Golzar, H. 6845
Gomarasca, S. 2361
Gomathinayagam, P. 11605, 11774
Gomer, V. V. 6080
Gomes, E. P. 4674
Gomes, J. 960
Gomes, J. L. L. 7093-7094
Gomes e Gama, E. E. 1433, 6879, 6887
Gomes Filho, E. 10552
Gómez, E. 11957
Gomez, M. 7410
Gómez, M. D. 13008
Gomez, M. H. 1450, 1452
Gomez, M. I. 6939
Gomez Aguilera, J. L. 11903
Gómez-Aparisi, J. 7854
Gómez-Arnau, J. 6362
Gómez Campo, C. 1819
Gomez-Macpherson, H. 11273
Gömürgen, A. N. 10403
Gonçalves, W. 4283
Gonçalves Pires, M. B. 10485
Gonchar, M. T. 10834
Goncharenko, A. A. 11411
Goncharenko, G. G. 3364, 4363-4364, 8642, 11022, 13300
Goncharov, N. P. 2573
Goncharov, S. V. 3596
Gondet, L. 13223
Gondran, J. 12866
Gong, G. M. 3836
Gong, J. G. 12112
Gong, S. P. 2243
Gong, S. Y. 10347-10348
Gong, X. 8392
Gong, Y. C. 10959
Gonsalves, C. 10944
Gonsalves, D. 724, 9969, 10944
Gontarenko, O. V. 244, 11359
Gontia, A. S. 381, 1367, 5077
Gonzales, M. M. 4086, 8355
González, A. 9880, 12340
Gonzalez, A. 3314
González, C. 7398-7400
González, C. A. 7950
González, D. 9146
González, E. L. 7370
González, J. M. 201, 2662, 6838
González, M. C. 1571
González, R. 7398
González, R. H. 5590
González-Benito, M. E. 973, 12823, 13276
González-Castaño, S. 1633
González de la Peña, M. A. 8490
González de León, D. 5311, 7697, 8512, 12694
González-Fernández, A. 7191
González-Hernández, V. A. 5968
González-Hidalgo, E. 5482
González Idiarte, H. 9497
González-Ledesma, M. 7030
González R., R. 9249-9250
González-Salán, M. M. 4101
Good, A. G. 6842, 8058
Goodbody, K. C. 310
Goodchild, A. V. 10439
Goodenough, D. C. W. 7026
Goodenough, P. W. 3178
Goodin, M. M. 5681
Gooding, M. J. 5900, 7805
Gooding, R. W. 1375
Goodlove, P. E. 3312
Goodman, H. M. 67, 3504, 4585, 5769, 5778, 7629, 10011, 12397
Goodman, M. M. 11457
Goodman, R. 2075, 2266, 5742
Goodman, R. M. 936, 3289
Goodrich, J. 6580
Goodrich, W. J. 5773
Goodwin, P. B. 8379
Goos, R. J. 7851
Gopakumar, K. 6384
Gopal, J. 5112, 8249, 10579, 10592, 10594
Gopal, K. 3249, 5403, 7358
Gopalakrishnan, M. 13392
Gopalakrishnan, P. K. 660, 6392, 7243
Gopalakrishnan, T. R. 705
Gopalam, A. 9926
Gopalasundaram, P. 6377
Gopalkrishnan, K. 7345
Gope, B. 4281
Gopi, C. S. 6391
Gopimony, R. 6384, 6388, 6393
Gopinadhan, P. B. 11506
Goplen, B. P. 484, 10420
Gor, H. K. 3251
Gorakh Singh 1917
Góral, G. 3581
Góral, T. 2437, 3449
Gorastev, C. 1353
Gorbet, D. W. 4263
Gorbunov, A. B. 7245
Gordeĭ, G. M. 6874
Gordeĭ, I. A. 6874
Gordon, D. R. 10997
Gordon, D. T. 9160
Gordon, I. L. 7017
Gordon, M. P. 974, 5608
Gore, S. L. 5780
Gorel, F. L. 483
Gorenshteĭn, N. M. 2388
Goreux, A. 4196, 10825
Görg, R. 5924
Gorham, J. 1253, 2435, 6769, 10184, 10393, 11650, 12558
Gorla, M. S. 9168
Görlach, J. 4054-4055, 7212, 10659
Gorlov, I. P. 12424
Görnhardt, B. 4813
Górniak, J. 6795
Górski, M. 4539
Gorsuch, C. S. 758
Gosal, S. S. 886, 1572-1573, 1957, 6211, 7305
Gosling, P. G. 8652
Goss, R. L. 4412
Gossen, B. D. 10420, 10432
Gossen, M. 8544
Gossett, D. R. 9750-9751, 10980, 12172
Gostimskiĭ, S. A. 7225
Gostimsky, S. A. 7225
Gostovic, P. 10459-10462
Goswami, S. B. 7177
Goth, R. W. 2982, 10599
Goto, F. 12719
Goto, M. 10277
Gotoh, Y. 2352
Gottlieb, L. D. 3391
Gottsberger, G. 11244
Gottwald, F. 163
Gottwald, T. R. 4180
Götz, K. U. 12428
Götz, R. 3684
Goud, I. S. 6358
Goud, J. V. 1559
Goud, K. V. 13005
Gough, F. J. 8922
Gouis, J. le 9708
Goulard, M. 8066
Goulart, B. 760
Goulart, B. L. 11992, 13079
Goulden, D. S. 12887-12888, 12902
Goulden, M. G. 6243
Gounaris, Y. 6238
Gounder, R. K. 5185
Gourlay, I. D. 7443
Gourley, C. J. P. 9303
Gousseau, C. 6556
Gouvela, S. 6943
Gouyon, P. H. 2187, 4484, 6667, 8679, 9169, 12446
Govindan, A. 12713
Govindan, M. 6405
Govindaraj, P. 9443
Govinden, N. 1398
Govindjee 3453
Gowda, B. J. 9154
Gowda, C. L. L. 1747
Gowda, J. V. N. 10625
Gowda, K. T. P. 9154
Gowda, M. V. C. 7365
Gowda, N. A. J. 7999, 8294
Gowda, P. H. R. 3028
Gowda, P. S. B. 6948
Gowda, R. V. 5140
Gowda, T. H. 2936
Goy, P. A. 2075, 2266, 5742
Goyal, S. 6769
Goyal, S. N. 871
Goyne, P. J. 6827
Gozé, E. 8575
Gozu, Y. 4449
Graaff, A. de 3413
Grabau, E. A. 1698, 8144, 12833
Grabowski, C. 12049
Grabowski, R. 7623
Grace, K. S. 4814
Gradl, H. 8837
Grady, K. 9760
Grady, K. A. 9759, 10854
Gradziel, T. M. 8407, 8410, 11984
Graef, G. 1701
Graef, G. L. 6129
Graessmann, A. 7632
Graessmann, M. 7632
Graeve, K. 7158
Graf, B. 3123
Graf, L. 12127
Grafton, K. F. 1729, 8182, 10503
Graham, A. 11039
Graham, E. T. 7517
Graham, G. C. 12472
Graham, G. I. 9132
Graham, I. A. 10709
Graham, J. 13071
Graham, J. H. 4180, 10055
Graham, L. E. 2268
Graham, M. J. 1712, 11712
Graham, M. W. 13329
Graham, R. D. 8913
Graham, S. A. 11039
Graham, S. W. 2398
Grahsl, A. 2983
Grala, W. 5009-5010, 10523
Gramatikova, M. 1351, 1353
Granados, G. 3762, 5982
Grandbastien, M. A. 2058, 6481, 8562
Grando, S. 11161, 11380
Graner, A. 1345, 4561, 12463
Granett, J. 3168, 13089
Granger, R. L. 737, 744
Grant, D. 9014, 11442
Grant, J. E. 11960
Grant, M. 11685
Grant, M. N. 1303, 8915
Grant, R. A. 5136
Grant, S. 5966
Grant, S. R. 3718
Grant, W. F. 1673, 11688
Gras, P. W. 12547
Grasser, K. 7941
Grasser, K. D. 1716, 6885, 8855, 12658
Grassert, V. 8253
Grassi, F. 7269, 11976, 12308
Grassi, G. 9652
Grauke, L. J. 9650
Graves, C. H., Jr. 10832
Graves, C. R. 1459
Graves, P. V. 10088
Gravois, K. A. 6047, 11549
Gravoueille, J. M. 11795
Gray, B. 4460
Gray, D. J. 4109, 5207
Gray, F. A. 1659
Gray, J. 675
Gray, J. C. 7387
Gray, J. E. 1829, 5802, 8325, 11883
Gray, L. E. 13333
Gray, M. W. 1245, 11405
Gray, S. 566
Gray, S. J. 6983
Gray, S. M. 13031
Graybosch, R. 159
Graybosch, R. A. 6867, 8908
Grayer-Barkmeijer, R. J. 13385
Greathead, A. S. 4043
Greaves, F. 539
Greaves, L. A. 7019
Grebennikova, Z. K. 12667
Grechko, S. P. 2023
Greco, I. 4126
Greco, N. 6116, 8141

Greco, R. 9026, 9152
Green, A. 9677
Green, B. 7617
Green, B. M. 10488
Green, B. R. 4594, 8860
Green, C. C. 9746-9747
Green, C. D. 10646
Green, D. E. 6130
Green, D. G. 7680
Green, J. M. 7971
Green, P. B. 6269
Green, P. J. 1141, 4575, 4582, 5448, 7647
Green, P. S. 11018
Green, R. M. 10190
Green, S. K. 3048, 5689
Greenberg, B. M. 2322
Greenberg, J. 1167
Greene, A. E. 6501
Greene, E. 2319
Greene, G. M., II 730
Greengrass, B. 12358
Greenland, A. J. 3708
Greenspan Gallo, L. 11841
Greenwood, M. S. 5594
Greer, A. F. 6262
Greer, C. E. 12227
Gref, R. 4366
Greger, H. 12287
Gregersen, P. L. 5925, 11394
Gregerson, R. 2325, 3910
Gregerson, R. G. 1014, 2199, 2266, 3915, 11657
Gregorius, H. R. 51, 4378
Gregory, J. W. 6866
Grégory, N. 5973
Gregov, Z. 6892
Gregová, E. 4753
Greig, K. 13071
Greilhuber, J. 3429
Greiner, A. 10647
Greizerstein, E. J. 1622, 11617
Grellet, F. 1156, 1812, 2730, 5775, 13061
Grelon, M. 9665
Grenier, E. 749
Gressel, J. 1119, 8781, 9951, 11172
Gresshoff, P. M. 522, 1677, 1697, 2266, 3920, 3948, 10468, 11728, 12832
Gretenkort, M. A. 3209-3210, 4224, 9406
Greve, L. C. 1836
Grevelding, C. 3499
Grewal, A. S. 2528
Grewal, H. S. 1573
Grewal, J. S. 10546, 11134
Grewal, M. S. 1392
Grey-Wilson, C. 4517
Grezes-Besset, B. 10865
Grib, S. 2420
Gribanova, N. P. 5426
Gribaudo, I. 778
Grichar, W. J. 3246, 8506
Grienenberger, J. M. 5857
Griensven, L. J. L. D. van 4494, 13401
Grierson, C. 8238
Grierson, D. 675, 1829, 7215, 8325, 9540, 11883, 13006
Griesbach, R. 4438
Griesbach, R. J. 4441, 4454, 8358, 11080, 13374
Griess, E. A. 6885, 8855, 10234
Griffey, C. A. 2546, 8926, 8949, 10137, 11363
Griffin, A. M. 12317-12318
Griffin, A. R. 9793
Griffin, B. J. 9783
Griffin, H. G. 12317-12318
Griffin, J. D. 4989
Griffing, B. 1770
Griffith, M. 10589
Griffith Hack & Co. 2718
Griffiths, A. J. F. 4594
Griffiths, D. W. 3017, 5014, 9465, 12934
Griffiths, E. 10187
Griffiths, T. D. 9724
Grifi, F. N. 5398
Griga, M. 11704
Grigaliūnaitė, B. 2841
Grigorova, N. V. 10084
Grill, E. 7631
Grill, L. K. 6662
Grilli Caiola, M. 8705
Grillo, A. 1368
Grima-Pettenati, J. 8588, 12184
Grimault, V. 3064, 8339
Grimes, J. 13287
Grimes, S. M. A. 11030
Grimm, C. 8822
Grimsley, N. 5990
Grisham, M. P. 8521
Grisley, W. 12876
Grisvard, J. 2890, 6167
Gritsyk, N. S. 2023
Gritton, E. T. 1737, 2914
Grivet, L. 8512
Grochowicz, J. 4971
Grodzinskiĭ, D. M. 3873
Grodzinsky, D. M. 3873
Groenewegen, L. J. M. 6771
Groenwold, R. 7204, 10650, 10654
Groet, J. 13212
Groff, D. W. 10703
Grohmann, L. 10569, 11803
Grolier, N. 11795
Grombacher, A. W. 11342
Gromet-Elhanan, Z. 3642
Grondhuis, P. 1778
Gronenborn, B. 681, 10685
Grönroos, R. 9816
Gronwald, J. W. 3771, 12791
Groombridge, B. 2272
Grooms, L. 472
Groose, R. W. 2861, 3917, 11660
Groot, M. J. A. de 921, 13212
Groot, P. de 2061
Groot, S. P. C. 7240
Groover, A. T. 12211
Grosbois, M. 12382
Grosdemange, F. 4241
Grosjean, F. 5055
Gross, C. D. 6734
Gross, C. L. 8463, 9446
Gross, D. C. 4138
Gross, P. 5674
Gross, Y. 7101, 10509
Grossa, J. P. T. 5304
Grosser, J. 2595
Grosser, J. W. 3173-3174, 4178
Grosset, J. 10047
Grossi, M. 2345
Grossman, M. 10034
Grossmann, K. 910, 5451
Grosso, N. R. 11275
Grotewold, E. 3716, 9028
Groth, D. E. 386, 1517
Groth, I. 8715
Groth, J. V. 8931
Grotte, M. 4105
Groughan, T. P. 9242
Grover, A. 5728, 8039
Gruber, M. Y. 2327
Gruissem, W. 646, 4039, 6263
Grula, J. W. 942
Grum, M. 11856
Grumet, R. 723, 1862, 3090, 8372
Grünanger, P. 9898
Grüneberg, W. J. 12333
Grunes, D. L. 2515
Grunewaldt, J. 7515, 9507
Grusak, M. A. 8195
Grushin, A. 11138
Gruss, K. 8603
Gryaznov, A. A. 1337
Grynia, M. 11639
Grynkiewicz, G. 6503
Grzywa, M. 288
Gu, D. F. 1519
Gu, F. L. 6982
Gu, H. P. 6120, 11697
Gu, J. 7310
Gu, J. Y. 6888
Gu, L. M. 9743
Gu, M. H. 9217, 12740
Gu, M. R. 10741
Gu, Q. M. 1277-1278
Gu, S. 2771
Gu, S. Y. 12075
Gu, X. 3839
Gu, X. Z. 1702, 2873
Gu, Y. J. 409
Gu, Y. Q. 8708
Gu, Z. J. 11038
Gualberto, J. 5857
Guan, C. 11334
Guan, G. P. 10908-10909
Guan, H. P. 10270
Guan, L. M. 11236
Guan, X. L. 10808
Guan, Y. 5800
Guan, Y. L. 118
Guan, Z. G. 6298
Guardiola, M. L. 6277, 8342, 8344
Guarino, L. 9263
Guarnaccia, P. 5486
Gubanov, I. A. 11154
Gubbaiah 6053
Gubiš, V. 4946
Gubler, F. 267
Gudauskas, R. T. 6881, 8371
Gudin, S. 6567, 8665
Guðleifsson, B. E. 11620
Gudmestad, N. C. 8271
Guédon, D. 4479
Gueguen, J. 4973-4974
Guehl, J. M. 5586
Guei, R. G. 3760
Guen, J. le 5001, 8167, 8169
Guen, L. le 11201
Guen, V. le 852
Guerau de Arellano, C. 11903
Guerche, P. 3211, 4226
Guerineau, F. 9984
Guerinot, M. L. 7628
Guerke, W. R. 9688
Guern, J. 909, 13203
Guerra, M. 796
Guerra, N. B. 11528
Guerrant, E. O., Jr. 2278
Guerrero Boafé, J. 7722, 8494, 9008
Guerri, J. 5245
Guerrier, D. 1156, 7630
Guerrier, G. 4071
Guerriero, R. 6409, 7267, 7270-7271
Guevara, P. 343
Guevara, Y. 9483
Guffy, R. D. 10476
Guha, G. 7816
Gui, Y. 6314
Guiderdoni, E. 6969, 10376
Guidet, F. 7198
Guiducci, M. 2451
Guilfoyle, T. J. 63, 506, 6128, 8149, 10463, 11209
Guillaumes, J. 3117
Guillemaut, P. 12221
Guillemin, J. P. 10812
Guilluy, C. M. 3042
Guiltinan, M. 7079
Guimarães, D. R. 9503
Guimarães, E. P. 1510, 1610, 7005-7006, 9239
Guimarães, I. 13338
Guimarães, P. E. O. 1433, 6887
Guimarães, R. C. 49
Guirao, A. 8882
Guitián, J. 6302
Guitton, M. C. 8326
Guivarc'h, A. 13201
Guivarc'h, D. 4580
Gul, F. 6155
Gul, K. 1273-1274
Gulati, A. 592, 7154-7155, 10559, 11787
Guleria, S. K. 7787
Gulick, P. J. 2523, 7032, 9258
Gull, K. 4491
Gullberg, U. 977, 2121, 3347, 5551
Gulli, M. 2305
Gulshan Lal 11876
Gülüt, K. Y. 8913
Gulya, T. J. 12062
Gulyás, S. 8917
Gülyaşar, F. 9739
Gumber, R. K. 2924, 9414
Gumbie, C. M. 13302
Gumerman, G., IV 11488
Gunasekera, D. 2067, 11393
Gunawardena, S. F. B. N. 2867
Gundalia, J. D. 6006, 6424
Gunderson, C. A. 13274
Gunia, W. 6114
Gunn, N. 11228
Gunning, B. E. S. 11214
Gunter, V. 9669
Günther, T. 3696
Guo, A. 1606
Guo, B. 7772
Guo, B. H. 226
Guo, C. G. 6464
Guo, C. J. 9749
Guo, C. R. 11494
Guo, D. D. 6460
Guo, D. P. 5151
Guo, D. S. 11494
Guo, D. X. 9363
Guo, D. Z. 2097
Guo, F. X. 6604
Guo, G. N. 5228, 7249, 11964
Guo, H. 8400
Guo, J. 6916, 6936
Guo, J. C. 952, 10975
Guo, J. M. 10881
Guo, L. J. 1332
Guo, Q. F. 7947
Guo, T. 6122, 12827
Guo, T. C. 790, 6322
Guo, W. M. 9234
Guo, X. 10348
Guo, X. J. 5906
Guo, X. P. 431
Guo, Y. 9200
Guo, Y. Y. 8942
Guo, Z. 12499
Guo, Z. C. 1401
Guo, Z. R. 8400
Guo, Z. S. 9748, 10967
Guo, Z. X. 6315
Gupta, A. K. 6792, 6802, 7133, 11613, 12577, 12579
Gupta, A. S. 329, 6192, 10267, 10285
Gupta, B. K. 5306
Gupta, C. 5535
Gupta, D. K. D. 442
Gupta, G. K. 6008
Gupta, H. S. 2749
Gupta, I. C. 7576
Gupta, J. C. 8096
Gupta, K. R. 1769, 10558, 11323
Gupta, M. D. 8375
Gupta, M. L. 832, 1936, 2014
Gupta, N. 780
Gupta, P. K. 498, 562
Gupta, P. K. S. 2935
Gupta, R. K. 500
Gupta, R. P. 3978
Gupta, R. V. S. 4257
Gupta, S. 2235, 8449, 9232, 12579
Gupta, S. C. 377, 1055, 4269, 6009, 9193, 11541, 13395
Gupta, S. K. 1948, 7130, 7576, 9444
Gupta, S. N. 10451
Gupta, V. P. 552, 835, 839, 861, 1749, 1752, 1983, 2416, 2862, 6188, 6222, 7113-7114, 7130, 8156
Gupta, V. S. 11574, 12715
Gupton, C. L. 8422, 13075
Gurban, S. 8322
Gürbüz, B. 9679
Gürcan, A. 2930
Gurdeep Singh 3978
Gurdev Singh 3207
Gurdip Singh 572, 849, 5501, 10541
Gürel, A. 5878
Gurinder Singh 568
Guriqbal Singh 7100
Gurmit Singh 12846

Gurni, A. A. 1676
Gurr, G. M. 3012
Gurr, S. J. 5922
Gurtu, S. 13161
Gurung, T. R. 1521
Gururajan, K. N. 2084
Guruswamy, V. D. 2940
Gusakovskaya, M. A. 11337
Guseĭnov, G. G. 4732
Gussman, C. D. 4124
Gusta, L. V. 1254, 11163, 12808, 13247
Gustafson, J. P. 2728, 3803, 6728, 11312
Gustafson, M. E. 5755
Gustafson, V. D. 10087, 10112
Gustafsson, L. 12819
Gustafsson, P. 12819
Gustavsson, H. O. 5352, 12045
Gut, M. 2495, 10125
Gut-Rella, M. 936, 3289, 5464
Guta, S. N. 582
Guthrie, W. D. 11421
Gutiérrez, A. P. 5027
Gutierrez, C. 5482
Gutiérrez, G. 5968
Gutiérrez, J. A. 2884
Gutierrez, J. C. 6521, 9752
Gutiérrez, L. 3433
Gutiérrez, M. 8453
Gutmański, I. 12964
Guttman, S. 12922
Guu, J. W. 1728
Güveloğlu, M. 9739
Guy, C. L. 8309, 11868-11869
Guyer, C. 126
Guyer, D. 12399
Guzmán, C. A. 7395, 8729
Guzmán, M. L. 2012
Guzmán, P. 2894
Guzzo, F. 11008
Gwag, J. G. 5360
Gwaze, D. P. 7451, 12193
Gyanendra Singh 6895, 7144, 7153, 10498
Gyeltshen, T. 10424
Győri, T. 5060
Gyulai, G. 822, 3567, 8528
Ha, S. 6091
Ha, Y. M. 10991
Ha, Y. W. 1356, 5881
Ha Dinh Tuan 6062
Haag-Kerwer, A. 3351
Haahr, V. 12622
Haak, I. C. 12472, 12524
Haalman, D. 7832
Haan, A. de 4059
Haan, P. de 9967
Haapanen, M. 6551
Haaren, M. J. J. van 1127, 1404
Haarmann, R. J. 4841
Haas, N. A. 5954
Haase, N. U. 11757
Haase, P. 11019
Habben, J. E. 3753
Haberlach, G. T. 6230, 12933
Haberle, J. 10119
Habětínek, J. 4769, 5367
Habib, A. F. 7365
Habib Ahmad 5911
Habibuddin, H. 9244
Habtemariam, G. 7988
Habu, Y. 5083
Hachett, J. H. 6805
Hachtel, W. 2173
Hack, E. 3746
Hackauf, B. 7872, 11409
Hacker, J. B. 462, 1473, 2722, 3447, 3892
Hackett, C. A. 1370, 4765, 6823
Hackett, R. M. 3041
Hackett, W. 8610
Hadaček, F. 12287, 13388
Hadačová, V. 145
Haddad, G. O. 13092
Haddaoui, A. 4373
Hadfi, K. 4227
Hadfield, K. A. 3058
Hadiuzzaman, S. 4195
Hadjichristodoulou, A. 3672, 4657, 9693, 10502, 12588
Hadley, P. 6472
Hadlock, A. A. 1695
Hadwiger, L. A. 8273
Haegi, L. 1050
Haehnel, W. 7202
Haeseler, A. von 1224, 8858
Hagberg, A. 2594
Hagberg, P. 2594
Hagège, D. 5766
Hagel, C. 3578, 7696
Hagemann, R. 3494
Hagen, G. 506, 6128, 8149, 10463, 11209
Hagen, P. 12229
Haghighi, K. 1903
Hagima, I. 7065, 12563
Hagimori, M. 3313
Hagood, E. S. 2877
Hahlbrock, K. 3435, 5674, 5760, 5838, 7553, 8740, 8744, 11108, 11110, 12298
Hahn, S. K. 626, 1144, 3024, 12949
Hahne, G. 6361, 7883
Hai, Y. 220
Haïcour, R. 3013, 4174, 13109
Haider, A. 1273-1274
Haigh, A. 8296
Hailu Tefera 1755
Hain, R. 3298, 6499
Haines, M. W. 9791
Haines, R. J. 2389, 5518
Haishima, M. 12967
Haissig, B. E. 974
Hajabbasi, M. A. 10284
Hajare, D. N. 12854
Hajela, N. 4390
Hajela, R. K. 4390
Hajirezaei, M. 8248
Hak, O. 8633
Håkansson, A. 2377
Håkansson, G. 10935
Hake, S. 326, 2681-2682, 5970, 7899, 9011, 9077
Hakim, S. 7776
Hakoyama, S. 9433
Halac, I. N. de 9871
Halafihi, M. 11856
Halásová, J. 5309
Hales, D. F. 2837
Haley, C. S. 7666, 12427
Haley, S. D. 1327, 5890, 11748-11749
Halford, N. G. 2053, 6820, 7711, 11201
Halfter, U. 5770, 7521
Halgerson, J. H. 9284
Halila, M. H. 6210, 8209
Halim, A. H. 853
Hall, A. E. 8220, 10553, 12371, 12918
Hall, A. J. 7337
Hall, A. V. 2407
Hall, G. E., Jr. 13206
Hall, I. V. 3145
Hall, J. B. 9798
Hall, J. E. 3017
Hall, L. N. 9540
Hall, M. 2321
Hall, M. H. 10179
Hall, P. 13281
Hall, R. B. 2117, 2264, 13279
Hall, R. D. 7379
Hall, T. C. 13206
Hall, T. J. 2805
Hall, W. 10457
Hallad, J. S. 6335
Hallauer, A. R. 9052, 9105, 11418-11419, 11448
Halldén, C. 8470, 10837
Hallet, J. N. 4159
Hällgren, J. E. 6553, 11026
Hallick, R. B. 1146
Halliday, K. J. 10024
Halligan, E. A. 7025, 9621
Halligan, P. 2156
Halling, M. 11630
Halloin, J. M. 5507
Halloran, G. M. 2489, 2795
Halpern, J. 10032
Halpin, C. 13228
Halseth, D. E. 9451, 9476
Halteman, W. A. 8254
Halvankar, G. B. 6137, 7091-7092
Halward, T. 5401
Halward, T. M. 13332
Ham, R. C. H. J. van 8728
Hamachi, Y. 276
Hamada, T. 13232
Hamaker, B. R. 10309
Hamamatsu, C. 11563
Hamamura, K. 12756
Hamasuna, S. T. 8003
Hamaya, E. 8352
Hamblin, J. 8779, 11161, 12330
Hamdi, A. 12909
Hamdorf, G. 10746
Hameed, A. 5951-5952
Hamer, D. W. 9266
Hamer, J. E. 8051
Hamidah, M. 13358
Hamidah, S. 13165
Hamill, J. D. 9995
Hamill, S. D. 6321, 13091
Hamilton, D. A. 3714, 12247
Hamilton, M. B. 6642
Hamilton, N. D. 2300
Hamilton, R. 743
Hamilton, R. I. 340, 7957, 7961, 11466, 12684
Hamilton, W. D. 8787
Hamissou, M. 8943
Hamman, R. A., Jr. 5283
Hammatt, N. 5517
Hammel, B. E. 7458
Hammer, G. L. 1477-1479, 7977, 9108
Hammer, K. 2280, 7676, 7708, 11155, 12342, 12871, 12966, 13158, 13419
Hammer, P. A. 12245
Hammerlindl, J. K. 4559
Hammerschlag, F. A. 4127, 4144, 4516, 6305, 8366
Hammerschmidt, F. J. 7508
Hammett, K. 3468
Hammett, K. R. W. 12258, 13353, 13369
Hammock, B. D. 11205, 11800
Hammond, E. G. 1708, 8158, 9353, 11722
Hammond, J. 4311, 4454
Hammond-Kosack, K. 1844
Hammond-Kosack, K. E. 7231, 8341, 8346
Hammond-Kosack, M. C. U. 5860
Hammouda, F. M. 12991
Hamon, P. 12315, 12694, 12959
Hamon, S. 1102, 1876-1877, 10618, 12959
Hampson, C. R. 9653
Hampton, R. O. 3982, 8203, 12903
Hamrick, J. L. 488, 4445, 4463, 8593-8594, 9825
Han, B. 1959
Han, C. D. 6894
Han, C. F. 504, 12839
Han, F. 2857, 11697
Han, F. Q. 5543
Han, H. 12052
Han, H. Z. 9222
Han, I. S. 7079, 10039
Han, J. H. 196, 3609
Han, J. X. 12050
Han, K. H. 5608
Han, L. Z. 10346
Han, M. 12860
Han, M. S. 10180
Han, P. L. 1527, 6965
Han, R. T. 9238
Han, W. C. 5318
Han, Y. 6462
Han, Y. F. 5549
Han, Y. N. 5549
Han, Z. J. 5987
Han, Z. L. 9745, 11521
Hanada, K. 13032-13033
Hanafey, M. K. 2338
Hance, T. 7562
Hancock, D. 12785
Hancock, J. 3145
Hancock, J. F. 1903, 6535-6536, 7287, 11992, 12227, 13079
Handa, A. 8375
Handa, A. K. 4054, 10667
Handa, H. 1935, 4211
Handa, T. 1229, 5133
Handley, D. T. 3153
Handley, W. E. 8960
Handro, W. 5437
Haneklaus, S. 5884, 6350
Hanelt, P. 7676, 12346
Hang, A. 11314
Hang, A. H. 7426
Hang, X. 7087
Hangarter, R. P. 2357, 6677, 7641, 8819, 10013, 11220
Hanhart, C. 12995
Hanif, M. 6518
Hänisch ten Cate, C. H. 7228, 13348
Hanke, D. E. 4216
Hanley, S. 5769
Hanna, R. D. 2117
Hanna, W. W. 3780, 3783, 6952, 7987, 9184, 9186, 10317, 11541, 12780
Hannah, C. 7941
Hannah, L. C. 307, 5973, 7894, 9084, 10238
Hannah, M. 2574
Hannappel, U. 7711
Hanneman, R. E., Jr. 1779, 9460
Hannukkala, L. 2438
Hannus, R. 270, 5905
Hanounik, S. B. 6153
Hanquier, I. 9645
Hans, F. 8566
Hänsel, H. 4709, 12483
Hansen, A. L. 13185
Hansen, A. P. 5032-5033
Hansen, J. 3900
Hansen, J. J. 8421
Hansen, J. L. 10431
Hansen, L. D. 9828, 10254
Hansen, L. N. 8307
Hansen, P. 5229
Hansen, P. B. 3264
Hansen, R. 6581
Hansmann, C. F. 13090
Hanson, A. D. 12146
Hanson, J. 1623, 2122, 6100, 9245
Hanson, K. 10111
Hanson, K. K. 5989
Hanson, M. A. 11184
Hanson, M. R. 1017-1018, 6584-6585, 7612, 11076, 12266
Hanson, P. M. 2899
Hanson, R. 2526, 12487
Hanson, W. D. 6136
Hantke, S. 2196
Hanušová, R. 3658, 4736, 4738, 4740, 6779, 7828, 10143, 11364
Hanzawa, M. 12723
Hanzel, J. J. 12062
Hanzer, V. 5467
Hao, J. M. 10984
Hao, K. L. 5318
Hao, L. F. 2097
Hao, N. B. 1423
Hao, R. X. 8102
Hao, S. 1287, 1690
Hao, Y. C. 10347
Haouazine, N. 3590, 9996
Hapase, D. G. 882, 7375
Haque, F. 9444
Hara, A. 3185
Hara, C. 11561, 11604
Hara, T. 11086
Hara-Nishimura, I. 3093, 4266, 9562
Harada, H. 3014, 3313, 7173
Harada, J. J. 3549, 8477
Harada, K. 505, 9336, 9338, 10486

Harada, T. 735, 1672, 1771, 12730, 13032
Harada, Y. 12739
Haraguchi, M. 12185
Harbard, J. 9793, 11002
Harberd, N. P. 2360, 5773, 10013, 10025, 11194
Harbinson, J. 9951
Harborne, J. B. 6102
Harch, G. 7361
Harch, G. R. 7360
Hardee, D. D. 9756-9757
Hardegger, M. 10613
Hardeman, K. J. 12665
Hardenack, S. 3718
Harder, D. E. 2441, 2646, 5936, 12641
Harder, L. D. 4443
Harding, H. 7806
Harding, J. 4427, 5638, 9862
Harding, K. 841, 8236, 12930
Harding, S. 9040
Harding, S. A. 10939
Hardison, J. L. 10997
Hare, J. D. 9526, 10649
Hare, J. M. 6827
Harel, E. 9553
Harender Raj 7244
Harer, P. N. 1705
Hareven, D. 7219-7220
Hargreaves, J. 5922
Hari Singh 5344, 9516, 10843, 10849
Hariharan, M. 5333, 11102
Harinarayana, G. 3784-3785, 3787, 3789
Harinder Banga 6988
Haring, V. 5802
Haripriya, S. 10890, 12096
Harjit Singh 6063
Harju, A. 5582
Harkins, D. M. 13103
Harling, R. 8308
Harlow, G. R. 6675
Harmens, H. 6576
Harmsen, M. C. 1064
Harn, C. 8526
Haro, A. de 3221
Haroun, S. M. 9183
Harper, F. 9009
Harper, J. E. 9361
Harper, L. 7903, 7920
Harpreet Sandhu 6203
Harrabi, M. 570, 2626, 5066, 6844, 8140
Harries, H. C. 856, 3228, 6379
Harrington, H. M. 13208
Harris, C. A. 1666
Harris, D. R. 8296
Harris, M. O. 6810
Harris, N. 12997
Harris, P. J. C. 492
Harris, S. A. 2047, 4574, 13280
Harris-Haller, L. 9537
Harrison, G. E. 5843
Harrison, H. F., Jr. 8223
Harrison, K. 1844, 7210, 7231, 11880, 13229
Harrison, M. 1459
Harrison, M. A. 4763
Harrison, M. J. 2350, 3913, 10425
Harrison, R. L. 10306
Harrison, S. A. 1109
Harriss, F. 9843
Harrod, R. J. 13317
Harry, D. E. 4643
Harry, I. S. 8655
Harsh Raman 7247
Harst-Langenbucher, M. 777
Hart, A. L. 1661, 7055
Hart, C. M. 5456, 9730
Hart, E. R. 2117, 5544
Hart, G. E. 3591, 7702, 7739
Hart, H. T. 1034
Hart, H. 't 8728, 9905
Hart, L. 3804
Hart, L. 't 3804
Hart, S. E. 8531
Harte, C. 2186, 9871, 12255
Harter, K. 11109
Hartings, H. 5971, 6841, 6918, 7891
Hartl, L. 2547
Hartley, R. A. 3950
Hartman, G. L. 6274, 7593, 11893
Hartmann, C. 6743, 7733
Hartmann, G. 7782
Hartmond, U. 865, 13163
Hartog, M. 1803
Hartog, M. V. 4013
Hartog, P. R. den 6576
Hartung, J. S. 9566
Hartweck, L. 9972
Hartwig, E. E. 3940
Harty, A. 789, 8444
Harushima, Y. 8006, 10353, 11558
Harvala, C. 9877
Harvengt, L. 5087
Harvey, A. J. 5834
Harvey, B. M. R. 12936
Harvey, P. H. 12457
Harvey, T. L. 349, 9181, 10314
Harville, B. G. 10457
Harwalkar, M. R. 11776
Harwood, A. J. 12321
Harwood, C. E. 7574, 9791
Harwood, W. 6742
Hasan, M. 4906
Hasan, M. A. 7183
Hasan, S. M. Z. 13023
Hasebe, A. 8352
Hasebe, M. 8726, 13379
Hasegawa, H. 416, 7853, 13217
Hasegawa, K. 1914, 11311, 12496
Hasegawa, P. M. 3430, 3475, 4012, 4861, 5102, 5171, 5450, 9547, 9922, 12137, 13234
Hasegawa, S. 12015
Hasegawa, Y. 8746
Hasenkampf, C. 2208
Häser, A. 532
Hashem, M. A. 1323
Hashemi, A. 4270
Hashim, H. 12771
Hashim, I. B. 6420
Hashimoto, J. M. 13193
Hashimoto, T. 5043, 8731, 10928, 11101, 13382
Hashizume, T. 9535
Hashmi, N. 193
Hashmi, N. I. 3586
Hashmuthunnisa Begum 6904
Haskell, D. W. 8309, 11869
Hassall, B. J. 2575
Hassan, A. A. 10684
Hassan, M. 4006
Hassan, M. A. 11860
Hassan, S. 1958, 7232
Hassanein, A. H. M. 3776
Hassapidou, M. 9686
Hassawi, D. 6813
Hassell, M. P. 10050
Hasselt, P. R. van 721-722
Hassett, S. W. 2488
Hastings, A. 4601, 8834
Hastorf, C. A. 12312
Hatam, M. 11703
Hatano, S. 9868
Hatchett, J. H. 168, 1336, 6803-6804, 6806-6807, 8873, 10075, 11369
Hattemer, H. H. 2150, 7435
Hattori, J. 6508, 12033, 13202
Hattori, K. 1020, 12732
Hattori, T. 8003, 12092
Hatzios, K. K. 2877, 7981
Hatzopoulos, P. 6340, 10040, 10836
Hau, B. 6509, 8520, 8575, 12683
Hauber, R. J. 9138
Haubruge, E. 4748, 5072
Haudenshield, J. S. 13227
Hauge, B. M. 5769
Haughn, G. 7656
Haughn, G. W. 7642
Haupt, G. 10711
Hauptvogel, P. 2831
Haurez, P. 11471
Haury, P. 6552
Hause, B. 8475
Hause, G. 8475
Hausner, G. 8857
Hautea, R. 6144
Havelange, A. 2358
Havlíčková, H. 7828, 10150, 11372
Havlik, M. 5959
Havukkala, I. 8004, 8007, 10352, 11554, 11563, 11568-11569
Haware, M. P. 1754, 8140, 10539, 10541, 12911
Hawbaker, M. S. 8157
Hawk, J. A. 302, 4842
Hawkes, J. G. 2972, 5085, 11829
Hawkins, B. J. 8658
Hawlader, M. S. H. 368
Hawthorne, D. J. 7296
Hay, A. 9496
Hay, M. G. M. 1661
Hay, M. J. M. 4952, 7055
Hay, R. J. M. 4951, 6060
Hay, R. K. M. 5713, 12299
Hayakawa, T. 394
Hayasaka, H. 11558
Hayashi, H. 7640
Hayashi, J. 3679
Hayashi, K. 11850
Hayashi, M. 9336
Hayashi, T. 7668, 9920
Hayashida, N. 932, 2352, 7389, 7620, 8013
Hayes, P. 7838
Hayes, P. M. 1349, 4770, 8968, 10164, 10188, 12599
Hayman, B. I. 12116
Haynes, K. G. 1775, 2982, 8241, 9461, 10599, 13012
Haysom, H. R. 8287
Hayward, M. D. 89, 1081, 11629
Hazard, L. 12788-12789
Hazarika, G. N. 1884, 2410
Hazarika, M. H. 1838, 1949
Hazra, P. 10550
Hazra, S. 10880
He, C. L. 11714
He, C. T. 13241
He, D. G. 3627
He, F. L. 6299
He, F. X. 12043
He, H. C. 5317
He, H. H. 2739
He, J. 716, 4898
He, J. B. 657
He, J. J. 10965
He, K. 281
He, L. 4826
He, L. M. 330
He, L. Z. 10086
He, M. Y. 1287, 1690
He, S. C. 12389
He, S. R. 11552
He, S. S. 3336, 13250
He, S. X. 8894, 10073, 10274
He, X. C. 220
He, Y. L. 457
He, Z. C. 8432
He, Z. F. 6049
He, Z. H. 3827, 3832, 7785, 7995
He, Z. L. 6083
He, Z. P. 10449
Headrick, J. M. 3751
Heads, M. 13343
Healey, P. 8366
Healy, J. 3054
Heap, I. 8070
Heard, D. J. 5777
Heard, T. A. 7317
Hearn, C. J. 4180
Heath, L. C. 2839, 11672
Heather, D. W. 4036
Heatherly, L. G. 6143
Heavner, D. L. 1712
Hebbar, K. B. 10876
Hebbara, M. 10884
Hebda, R. 13340
Heber, U. 12147
Heberle-Bors, E. 1144, 2055, 2072, 2470, 4709, 10421, 11659
Hébert, D. 12812
Hebert, J. J. 5507
Hébert, Y. 1437, 1455
Heble, M. R. 6601
Hecht, U. 10010
Heckman, J. W. 8820
Hedberg, O. 1092
Hedde, L. 13421
Hedderson, F. 1818
Hedgcoth, C. 7756
Hedin, P. A. 2704
Hedley, C. 6190
Hedley, C. L. 556, 6179, 7109
Hedley, D. 8268
Hedley, M. J. 10382
Hedrén, M. 2398
Hedrick, L. A. 3941
Hedrick, P. W. 12434
Hee, F. P. van 259
Heenan, P. 4404
Heenan, P. B. 9840-9841, 12238
Heerden, H. G. van 3292
Heeren, R. A. 5755
Heering, J. H. 6100, 10445
Hegde, B. A. 2201
Hegde, M. 9654
Hegde, R. K. 9155
Hegde, R. R. 11773
Hegde, S. 8409
Hegde, S. G. 3979
Heidekamp, F. 268, 2617, 5463, 11384
Heidmann, I. 9881
Heidstra, R. 557-558
Heijbroek, W. 6463
Heikkila, J. J. 2331, 12466
Heikkinen, M. K. 7320
Heilman, P. 5540
Heilman, P. E. 9803
Heim, U. 2879, 9380
Heimes, S. 9723
Heimler, D. 5553
Hein, J. 6710, 11173
Heineke, D. 11821
Heinhorst, S. 3941
Heinlein, M. 4821, 11443
Heino, P. 12621
Heins, L. 9453
Heintzen, C. 5909, 8492
Heintzman, K. B. 12616
Heinze, B. 10001
Heiser, C. B. 10822
Heiskell, M. E. 5184
Heitholt, J. J. 6515-6516
Heitz, T. 6505
Heitzler, J. 3954
Heizmann, P. 3042, 3553
Hel, P. K. 7997
Held, B. M. 325
Helden, P. van 11999
Heldens, J. 8543
Heldt, H. W. 11821
Helentjaris, T. 1170, 9098, 10048, 10228, 10259-10261, 11454
Helgeson, J. P. 6230, 6244, 12129, 12933
Hell, R. 646
Hellens, R. P. 6173
Hellin, E. 808
Hellman, M. 5232
Hellyer, A. 4205
Helm, J. 8967
Helm, J. H. 11373-11374
Helms, R. S. 11549
Helms, T. C. 10453
Helsper, J. P. F. G. 9406
Hemalata Barigidad 6569
Hemaprabha, G. 5415
Hemerly, A. 10017
Hemerly, A. S. 3513
Hemleben, V. 8256
Hemmat, M. 10723
Hemmingsen, S. M. 824-825

Hemp, S. 5016
Henckes, C. 4855
Hendershot, K. L. 12372
Henderson, R. J. F. 12005
Henderson-Cole, J. C. 5625
Hendrick, C. A. 3746
Hendriks, H. 13390
Hendriks, T. 1803, 10575
Hendry, G. 5709
Hendy, M. D. 5820
Heneen, W. K. 1319, 4219, 12036, 13139
Hengst, L. 7623
Henke, G. E. 11361
Henn, G. 9466
Hennig, J. 6503
Henning, F. 7512
Henning, J. A. 6077
Hennink, S. 11855
Henricot, B. 7633
Henriksen, A. 5926
Henriksson, P. 1319
Henriques, M. I. E. C. 4246
Henriques-Gil, N. 7871
Henry, A. 7138
Henry, R. 2415
Henry, R. J. 160, 2581, 12472, 12524
Henry, Y. 3625, 6743, 8897
Hensgens, L. A. M. 3804, 3806, 6065, 6986
Henshaw, G. G. 5131
Henson, R. A. 1718
Henstrand, J. M. 4054
Hentrich, W. 7842
Henz, G. P. 4099
Henzell, R. G. 1472, 1480-1481, 2250, 2713
Heong, K. L. 10389
Hepburn, A. 12834
Hepperly, P. R. 11858
Hepworth, G. 10775
Herbert, F. 4764, 6836
Herbut, M. J. 12054
Herck, J. C. van 5162
Heredia, O. 7893
Heredia-Díaz, O. 12662
Heredia García, E. 3036
Heredia Zepeda, A. 3036
Herickhoff, L. 4060
Herickhoff, L. S. 3541
Heritage, A. D. 12867-12868
Herle, P. S. 8294
Herman, B. 13263
Hermanns, J. 7614
Hermanutz, L. A. 5523, 13355
Hermitte, M. A. 26
Hermoso, R. 8194
Hermsen, J. G. T. 2984, 8239, 8267, 11809
Hernández, C. M. 4546
Hernández, G. 475
Hernández, J. 8441, 10892
Hernández, J. C. 9062-9063
Hernández, J. E. 12893
Hernández, M. 3748
Hernández A., L. 2768
Hernández de Contreras, E. 878
Hernández González, J. J. 5585
Hernández Jasso, A. 9735-9736, 10958
Hernández Livera, A. 536
Hernández Livera, A. E. 536
Hernández-Lucas, C. 3479
Hernández Romero, L. A. 5127, 5695, 6246
Hernández-Yago, J. 664, 13008
Hernould, M. 2060, 10088
Hérouart, D. 8541, 12152
Herpen, M. van 2061
Herradura, P. S. 1554, 12755
Herrera, C. M. 4421
Herrera, R. M. 8037
Herrera, R. S. 3891
Herrera-Estrella, L. 53, 3290, 4591, 5037, 11616, 13207
Herrero, M. 1898
Herrick, J. F. 12258, 13353
Herridge, D. F. 2869, 8134, 9364
Herrin, D. 9988
Herrington, M. E. 8368
Herrman, T. J. 10587
Herrmann, B. 7608, 8761
Herrmann, H. 2595
Herrmann, K. M. 4054
Herrmann, R. G. 275, 3713, 4956, 5212, 5692, 5907, 6255, 6492, 7201-7202, 8310, 9051, 10246, 11433, 11435, 12113, 12977
Herron, C. 3206
Hershman, A. 5755
Hertel, H. 13297
Herter, U. 1400
Hervan, E. M. 4870
Hervás, A. 2932
Hervé, C. 3211
Hervé, Y. 1940
Hervieu, F. 11744
Herz, U. 10569, 11803
Hesemann, C. U. 3696, 8991
Hesk, D. 4406
Hesketh, J. D. 10476, 10480, 11708
Heslop-Harrison, J. S. 1151, 1193, 1246, 1347, 3195, 3573, 3575, 5843, 6742, 7036, 7381, 7727, 12619, 13184
Hess, C. E. 12353
Hess, D. 1144, 1230
Hess, J. L. 10489
Hess, W. R. 4762, 10163, 12468
Hesse, H. 6232
Hesse, T. 312
Hesselbach, J. 2422
Hessing, M. 4973
Hessler, C. 13360-13361
Heszky, L. E. 822
Heta, H. 12627-12628
Heth, D. 9781
Hetrick, B. A. D. 2481, 8903
Hetz, W. 7941
Heu, J. K. 11606
Heu, M. H. 6989, 11598, 12736
Heuchelin, S. A. 2117
Heun, M. 3689, 3709, 7836, 8925, 12550
Heusden, E. C. H. van 11016
Heuvel, J. F. J. M. van den 10603
Hewings, A. D. 2564, 8941
Hewitt, G. M. 1188, 8596, 8846, 11130
Hewitt, J. D. 8340
Heyn, C. C. 7682
Heywood, J. S. 8667
Heywood, V. H. 128, 1099
Hiatt, A. 3277
Hiatt, W. 4070
Hiatt, W. R. 3053
Hibberd, C. A. 1484, 4864
Hibi, N. 10928
Hibi, T. 3808
Hibino, H. 3859
Hibino, T. 7539, 8589, 9522
Hick, P. T. 4656
Hickey, K. W. 3116
Hickson, R. E. 5823
Hidaka, S. 1297, 3633
Hidaka, T. 805, 5152, 9623-9624, 13094
Hidalgo, O. 8279
Hidayat-ur-Rahman 3763, 4811, 4830, 4837
Hiei, Y. 11557
Hierse, R. E. 9255
Higa, Y. 1545
Higashiguchi, S. 10928
Higgins, C. M. 8133
Higgins, T. J. V. 2839, 2907, 6107, 8133, 11672
Higgins, V. J. 6275
Higgs, P. G. 1222
Highett, M. I. 5800, 6177, 12890
Hightower, R. 6498
Hignight, K. W. 6958
Higo, H. 3810, 12721, 12724
Higo, K. 3810, 12724
Higo, K. I. 12721
Higuchi, H. 5658
Higuchi, S. 3925
Higuchi, T. 7539, 8589
Higuera, A. 5068
Hihara, Y. 11561
Hiirsalmi, H. 7282
Hilber, O. 3438
Hilbers, S. 12625
Hildebrand, D. 935
Hilder, V. A. 4551
Hilgenberg, W. 12975
Hill, D. E. 639, 12979
Hill, G. M. 1484, 1636, 4864, 10400
Hill, J. E. 9227
Hill, J. H. 2312
Hill, K. D. 3342, 11035
Hill, N. S. 6068
Hill, P. 666
Hill, R. D. 1123, 8952
Hill, R. S. 2123
Hill, S. A. 5709
Hill, W. G. 12, 12425
Hille, J. 1404, 8347, 9538
Hillel, J. 9630, 12019
Hillen, W. 8544
HilleRisLambers, D. 421, 1591, 1595-1596, 2755, 10370
Hillman, G. C. 11263
Hills, D. M. 12459
Hills, H. G. 2398, 2400
Hills, M. J. 4213
Hilpus, I. 2390
Hilson, P. 1155
Hilton, R. J. 5240
Hilu, K. 3791
Hilu, K. W. 1647, 3901, 11240, 11531, 12704
Himeda, M. 2724
Himmel, P. T. 2564
Hinata, K. 9663, 12021, 12760
Hinckley, T. M. 8600
Hindagala, C. B. 1868
Hindar, K. 2257
Hinestroza G., F. 5124
Hinks, C. F. 4747
Hinnisdaels, S. 2174
Hinson, K. 6134
Hinterholzer, J. 301, 305
Hinton, D. M. 9157
Hintum, T. J. L. van 3535, 7318, 7832, 12587, 12589
Hintz, W. E. 13402
Hinz, P. N. 5951-5952
Hinze, E. 2992, 2997, 8277
Hipkins, V. D. 13293
Hipskind, J. 4840
Hirabayashi, T. 2071, 8426-8427, 9597
Hirae, H. 3185
Hiraga, Y. 8737
Hirai, A. 397, 6018-6019, 11573
Hirai, M. 4057, 9535, 12961
Hirai, M. Y. 8147
Hirai, T. 245
Hirakawa, N. 776, 8427
Hirano, H. 281, 647, 1297, 3633, 3830, 4128, 9333
Hirano, H. Y. 1590, 2740, 12725-12726
Hirano, K. 5284, 12001
Hirano, Y. 11095
Hiraoka, K. 5033
Hirata, S. 8737
Hirata, Y. 8473
Hiratsuka, S. 9888
Hiratsuka, Y. 3360
Hirayae, K. 12435
Hirayama, M. 3833
Hird, D. L. 4203
Hirel, B. 6127, 7221
Hiremath, S. C. 6432
Hiremath, S. R. 2936
Hiremeth, S. M. 10899
Hiriart, J. B. 5474
Hirner, B. 3497, 3999
Hirochika, H. 1157, 3813, 7898, 12738
Hirochika, R. 1157
Hirohara, H. 2461
Hirokawa, H. 7394
Hiron, J. C. 3480
Hirose, S. 3501
Hirose, T. 2056, 3866, 10932
Hirsch, A. M. 2332, 2824, 3919, 8103, 12382
Hirsch, H. J. 3996
Hirschberg, J. 7213
Hirt, H. 10421, 11659
Hisai, J. 7083
Hisatomi, Y. 8675
Histen, T. J. 12487
Hitz, W. D. 1154, 5172, 13122
Hizume, M. 4362, 4381, 4384, 12250, 12267
Hjortsholm, K. 11290
Hla Shwe 6025
Hlinková, E. 10484
Ho, J. Y. 7234
Ho, K. M. 7833, 11385
Ho, R. H. 8633
Ho, T. H. D. 3671
Ho, Y. W. 6319
Hoang, N. D. 4850
Hoang Dinh Dinh 1602
Hoang Van Phan 3800
Hoard, G. E. 1649-1651, 2823, 3908-3909
Hobbie, L. 11188
Hobbs, D. H. 4213
Hobbs, S. L. 942
Hobbs, S. L. A. 6183, 8186
Hobe, M. 9373
Hobson, D. D. 9787
Hoc, P. S. 2167
Hoch, B. 309, 10231, 12209
Hoch, P. C. 13363
Hockenberry, T. N. 4296
Hockett, E. A. 1352, 2599, 5918, 11371
Hodel, D. R. 5568
Hodge, D. 743
Hodge, G. R. 4367, 7434, 7478, 8635, 9812, 9818, 9820
Hodge, R. 4203, 5363
Hodges, H. F. 10968
Hodges, T. K. 12657
Hodgkin, T. 9955
Hodgson, C. J. 9435
Hodson, G. C. 7712
Hodson, M. J. 7712
Hoedemaeker, F. J. 5044
Hoek, I. H. S. 7228
Hoekema, A. 663, 5115
Hoekstra, F. A. 1216
Hoekstra, S. 2617
Hoenisch, R. W. 10294
Hoerner, D. R. 12366
Hoesche, J. A. 7108
Hoeschele, I. 4619-4620
Hoeven, C. van der 12139
Hoey, M. T. 980, 13284
Hofbauer, J. 8848
Hofer, O. 12287
Hoff, J. H. van't 38
Hoff, R. J. 3361
Hoff, T. 11186
Hofferbert, R. 2956
Hoffman, A. 5770
Hoffman, H. 8357
Hoffman, M. T. 1033, 3373
Hoffmann, G. M. 2545
Hoffmann, H. J. 10464
Hoffmann, N. E. 3527, 8811
Höfgen, R. 10568
Hofírek, P. 4988
Hofmann, S. 5253
Hofstra, H. 12249
Höfte, H. 1156, 7607
Hogarth, D. M. 2411, 3254, 3261, 6435, 6452-6453, 12102, 13179
Hoge, J. H. C. 4291, 4470, 8732
Hogenboom, N. G. 6649
Höglund, A. S. 4208
Hoglund, J. H. 4951
Hohl, B. 6114
Hohls, T. 9158
Hohmann, U. 6814, 7824

Hohn, B. 1148, 2321, 4294, 4849, 5990, 12136
Höhn, H. 3123
Hohn, T. 7611
Hoisington, D. 7570, 7697, 7755
Hoisington, D. A. 2341, 7880
Høj, P. B. 266
Hokanson, K. 3145
Hokanson, S. C. 1903, 6535-6536
Holaday, A. S. 6192
Holanda, J. S. de 5070, 13243
Holaway, B. L. 10936
Holbrook, L. A. 821
Holden, J. 3456
Holder, T. L. 6069
Holdsworth, M. 8238
Holdsworth, M. J. 5860
Hole, D. 1272, 12796
Hole, D. J. 10160-10161
Holkar, S. 500, 3986, 4331
Holland, J. B. 11654
Holland, M. A. 8148
Holland, R. J. 8322
Hollingsworth, M. J. 1820, 10646
Hollman, P. C. H. 12265
Hollricher, K. 5924
Hollung, K. 11378
Holly, L. 2027
Holm, E. T. 11828
Holm, P. B. 10175
Holman, S. R. 3845
Holmgren, P. 2406
Holsinger, K. E. 6697
Holst, B. K. 13288
Holt, N. W. 9265
Holtkamp, R. H. 2836
Holton, T. A. 3412, 4437, 4440, 8663
Holtum, J. A. M. 2647, 2796
Holub, E. B. 1169, 11228-11229
Holub, Z. 6548
Holubec, V. 7828, 11372
Hołubowska, M. 2981
Holuigue, L. 10925, 12931
Holzer, F. M. 9549
Holzerland, A. 12570
Hölzl, J. 13360-13361
Homchan, J. 10882
Home, S. 7848
Hömmö, L. 2438, 11291, 11412
Hömmö, L. M. 6736
Honda, A. 3049
Honee, G. 6276
Honeycutt, R. J. 2005
Hong, E. H. 2856, 2863
Hong, G. F. 8009
Hong, J. 13324
Hong, J. H. 6602
Hong, K. H. 3127, 10708
Hong, K. S. 2696
Hong, L. 11733
Hong, L. F. 3839, 6027
Hong, M. M. 4885
Hong, S. 6314
Hong, S. J. 2356
Hong, S. R. 8432
Hong, T. D. 1819, 6973
Hong, X. B. 794
Hong, Y. H. 8581
Hong, Y. P. 13293
Hong, Z. F. 9206
Hongo, A. 8128
Honma, M. 8012
Honma, T. 4349
Honrubia, M. 9831
Hontelez, J. 682
Hood, E. E. 3711
Hooda, I. 2929
Hooda, P. V. 1483
Hoogenboom, G. 10703-10704
Hoogendoorn, J. 2975, 3010, 7170
Hoogenraad, N. J. 266
Hooglander, N. B. 6853
Hooker, A. L. 4838
Hooley, A. 12322
Hooley, P. 12323
Hoot, S. B. 13364
Hooykaas, P. J. J. 921, 1149, 5756, 13212
Hopkin, M. S. 10254
Hopkins, C. 1606
Hopkins, D. L. 3091
Hopkins, E. R. 5577
Hopkins, R. J. 3017
Höpli, H. U. 3123
Hopp, H. E. 6361
Hopping, M. E. 9604
Hoque, K. R. 690
Hoque, M. 1884
Hoque, M. I. 2731
Hoque, M. S. 7870
Horber, E. K. 478-479, 9290-9291
Hore, D. K. 3837, 4022, 9944
Horejsi, T. F. 8158
Horeva, E. V. 8881
Horgan, R. 11384
Horgen, P. A. 1066, 2241, 13405-13406
Hori, M. 8004, 11554
Horiguchi, G. 13232
Horiuchi, S. 13085
Horn, N. M. 6115
Horn, R. 10858
Horner, H. T. 8150
Horry, J. P. 5311-5312
Horsch, A. 2208
Horsley, R. D. 7851
Horstmann, C. 12416
Horvat, R. J. 8402
Horvath, B. 557
Horvath, D. M. 10925
Horvath, D. P. 5785
Horvath, J. 5214
Horváth, Z. 2919
Hosaka, K. 1763, 1779-1780
Hoshi, Y. 12272
Hoshino, Y. 6570
Hosokawa, D. 3003, 6497
Hosoki, T. 8685
Hospital, F. 12428
Hossain, A. B. M. E. 4195
Hossain, A. K. M. A. 690
Hossain, M. 813, 5325, 10826, 13112
Hossain, M. A. 3682, 7137
Hossain, T. 553
Hossfeld, R. L. 1659
Hossieni-Nejad, Z. 13244
Hostert, E. E. 11262
Hotchkiss, J. R. 9287
Hotchkiss, T. 450
Hotze, M. 9912-9913
Hou, F. F. 360, 9367
Hou, G. Z. 13141
Hou, J. H. 3648
Hou, L. M. 3681
Hou, M. 5314
Hou, Q. S. 12052
Hou, X. L. 7290
Hou, Y. D. 6968
Hou, Y. S. 10093, 12505
Hou, Z. B. 8749
Houba, J. 2432
Houba-Hérin, N. 10930
Houben, A. 1191, 8165
Houchins, K. 6728
Houck, C. M. 3053
Houde, M. 187, 8919
Houdeau, G. 4490
Hough, T. 1627
Houle, G. 10990, 11034
Houllier, F. 4373
Houlné, G. 6671
Hour, A. L. 9695
Hourigan, J. 8384
House, A. P. N. 13262
House, S. M. 11009
Houser, D. J. 12364
Houssa, C. 2358, 11628
Houtchens, K. 3257
Houtchens, K. A. 7839
Houten, W. van 11567
Hove, C. van 7562
Hoveland, C. S. 1670
Hovermale, C. H. 7047
Hovmøller, M. S. 2553, 2638, 4550, 4775, 6851
Howard, D. 10014
Howard, F. W. 3181
Howard, R. S. 12442
Howe, C. J. 9987
Howe, G. T. 6538
Howell, E. C. 8437
Howell, G. J. 8851
Howell, J. A. 12922
Howes, N. K. 1312, 2500, 3629, 12541, 12641
Howie, W. 3293, 8565
Howieson, J. G. 6081
Howland, D. 9992
Höxter, H. 2655-2656
Hoyos, G. P. 2989
Hozak, P. 4628
Hradecká, D. 4772
Hrazdina, G. 10723
Hřib, J. 5541
Hron, R. 152
Hrotko, K. 5252
Hrouda, M. 8546
Hrustić, M. 503, 9372
Hsam, S. L. K. 2473, 7830
Hseu, R. S. 4509
Hsiang, T. 8607
Hsiao, C. 6735
Hsieh, M. T. 7545, 12289
Hsieh, R. M. 9894, 12273-12274
Hsieh, S. C. 1585, 11587
Hsing, Y. C. 9078
Hsissou, D. 12562
Hsu, C. M. 920
Hsu, S. Y. 875, 9695
Hu, C. G. 12013
Hu, C. H. 11578
Hu, C. Y. 4093, 4991-4992
Hu, D. F. 3839
Hu, D. H. 12088
Hu, G. Q. 7310
Hu, G. X. 728
Hu, H. 233, 246, 1389, 5941, 7769, 11317, 12642
Hu, H. C. 395
Hu, J. 1781, 6464, 7603
Hu, J. H. 12839
Hu, K. L. 10615
Hu, L. Y. 3336
Hu, N. B. 3822
Hu, P. 3027
Hu, Q. 12042, 13129-13130
Hu, Q. D. 1332, 2531
Hu, R. H. 3648
Hu, R. X. 399
Hu, S. A. 943, 5494, 10964
Hu, S. Q. 221, 3626
Hu, S. Y. 12232
Hu, T. C. 8888, 9224
Hu, T. R. 1921
Hu, T. X. 9743
Hu, W. M. 10225
Hu, W. Y. 1921
Hu, X. A. 11425
Hu, X. H. 457
Hu, X. L. 8386
Hu, X. X. 3698
Hu, X. Y. 11313
Hu, X. Z. 12112
Hu, Y. 9238, 12404
Hu, Y. H. 12047
Hu, Y. Z. 3953
Hu, Z. 8767
Hu, Z. L. 6303
Hua, J. P. 3322
Hua, X. Y. 8749
Hua, Z. P. 8377
Hua, Z. R. 457
Huaman, Z. 11818
Huan, Z. J. 7974
Huancaruna Perales, E. 736
Huang, A. H. C. 13294
Huang, B. 13138
Huang, B. L. 11122, 12304
Huang, B. Q. 10251
Huang, C. G. 2873
Huang, C. H. 5116
Huang, C. N. 282, 287
Huang, C. Y. 1702, 11727
Huang, D. C. 8920
Huang, F. 189
Huang, F. M. 2757
Huang, F. X. 2762
Huang, G. C. 6299
Huang, H. 3508, 12404, 13119
Huang, H. C. 850, 2900, 10628, 11073-11074, 12722
Huang, H. Q. 1584, 5303
Huang, J. 9726
Huang, J. C. 810, 6327
Huang, J. Q. 10978
Huang, J. S. 8397
Huang, J. T. 315
Huang, J. W. 2515
Huang, L. 6968
Huang, L. C. 11122, 12304
Huang, L. K. 4898
Huang, L. Q. 3527, 8811
Huang, L. S. 7260
Huang, M. F. 3698
Huang, M. P. 8408
Huang, N. 3805
Huang, P. H. 9800
Huang, P. K. 2104
Huang, P. L. 6286, 12020
Huang, P. Z. 282
Huang, Q. 3818
Huang, Q. G. 10336
Huang, Q. Y. 410
Huang, R. 6852, 10192
Huang, R. H. 5303
Huang, S. 2266
Huang, S. C. 11431
Huang, S. J. 9832
Huang, S. M. 10969
Huang, S. R. 2199
Huang, S. S. 6582, 12445
Huang, T. C. 169, 3631
Huang, W. D. 398, 1278
Huang, W. F. 1332, 2531
Huang, W. H. 453
Huang, X. B. 9207
Huang, X. F. 7885
Huang, X. G. 11912
Huang, X. L. 10221
Huang, X. Q. 1036, 5210
Huang, Y. 4265, 11227
Huang, Y. C. 12142
Huang, Y. H. 10960
Huang, Y. Q. 1537
Huang, Y. R. 10345
Huang, Y. X. 7310
Huang, Y. Z. 3472
Huang, Z. C. 6028
Huang, Z. L. 10380
Huang, Z. M. 941
Huang, Z. X. 3681
Huarte, M. A. 9470
Hubáčková, M. 782-783, 10795
Hübel, A. 7655
Huber, D. A. 4135, 9812
Hubert, E. 3002, 3005
Hubert, L. J. 11439
Hubert, N. 4557, 13132
Huckett, B. I. 9773, 12104
Hucl, P. 177, 2514, 2892, 8484, 10111
Hudák, J. 4761
Hudina, M. 10736
Hudson, A. 3407
Hudson, G. S. 931, 6490
Hudspeth, R. L. 942
Hue, N. V. 9491
Huebner, F. R. 1385
Huehn, M. 831
Huelsenbeck, J. P. 12459
Hueros, G. 1341
Huerta-Espino, J. 8936, 10147
Huet, C. 4241
Huff, D. R. 2809, 8064, 11053
Huggan, R. 3793
Huggan, R. D. 3170
Hughes, C. A. 10056
Hughes, C. E. 13280
Hughes, C. R. 7663
Hughes, D. W. 8572, 11274
Hughes, E. J. 2299
Hughes, G. R. 177, 3655
Hughes, K. W. 6968
Hughes, M. 5800, 6800

Hughes, M. A. 272, 3669, 5919, 7713, 8287, 8964, 9293
Hughes, R. N. 9771
Hugo, M. 10087, 10112
Hugueney, P. 10692
Huguet, T. 3918, 5057, 12898
Huh, G. H. 188
Huh, G. S. 11405
Hühn, M. 2302, 4372, 7584, 12369
Huie, E. B. 9322
Huigen, D. J. 3998, 7166, 8239, 9457
Huijberts, N. 8315
Huijser, P. 6581
Huisman, J. 5697
Huisman, J. G. 11804
Huisman, M. J. 5115, 10607
Huisman, O. C. 10598
Huits, H. S. M. 13368
Hulamani, N. C. 6335, 9656
Hulbert, S. H. 2696, 6813, 12213
Hull, L. A. 10734
Hull, R. 11171, 13235
Hull, R. J. 13227
Hulme, M. 7490
Hulshof, M. J. H. 8297
Hülskamp, M. 8817
Hultgård, U. M. 4420
Hultner, M. 8793
Human, C. F. 12011
Humayun Khan 6155
Humberto, R. G. 6623
Hume, D. J. 10459-10462
Hummel, S. 3497, 6232, 7608, 8761
Humphray, S. J. 12534
Humphreys, M. O. 9252
Humphreys, M. W. 3880, 12787
Huner, N. P. A. 10589
Huneycutt, H. 6058-6059
Hung, C. H. 3349, 4297
Hung, H. H. 10343
Hunger, R. M. 2565, 8922
Hungria, M. 5035
Hunnam, T. 6183
Hunold, R. 7883
Hunt, A. G. 8561, 10946
Hunt, C. W. 10179
Hunt, D. F. 2904
Hunt, G. 6230
Hunt, L. A. 1271
Hunt, R. S. 11027
Hunter, C. F. 5812
Hunter, E. A. 3018
Hunter, M. D. 10734
Hunter, R. B. 11415, 12362
Hunter, R. M. 3608
Hurka, H. 1178
Hurkman, W. J. 8950
Hurley, R. H. 1630, 9856
Hurwitz, C. 7220
Husebye, H. 1933
Husnain, T. 10531
Hussain, A. 231, 355, 359, 3615, 4221, 5935, 6004, 9388, 11768, 12639, 13137
Hussain, M. K. 7351
Hussain, R. 11346
Hussain, S. 5814, 8229
Hussain, S. H. N. 634
Hussain, T. 5389, 8578
Hussein, M. M. 6153
Hussey, C. 2354
Hussey, M. A. 6958
Hussey, P. J. 310, 316, 3708
Hussey, R. S. 9331
Huszár, J. 3657, 4552, 4737
Huszka, T. T. 9558
Hutchinson, A. 5225
Hutchinson, J. F. 13329
Hutchison, D. 8447
Hutchison, W. D. 11514
Huth, W. 12630
Hutomo, T. 1972
Hutten, R. C. B. 8239
Huttleston, D. G. 4388
Huttly, A. 8821
Huttly, A. K. 7638
Huttner, E. 6481
Huttner, S. L. 5380
Hutton, R. J. 5721
Huvermann, B. 7202
Huyghe, C. 4957, 6094, 8120, 10440
Huynh, K. L. 1062
Huynh, T. D. H. 4496
Huystee, R. van 6135
Hvarleva, T. 12596
Hwang, B. K. 8348
Hwang, G. J. 4015
Hwang, I. 4585, 5769
Hwang, J. S. 8348
Hwang, S. C. 12010
Hwang, Y. J. 11037
Hwang, Y. S. 11534
Hyams, J. S. 4632
Hyland, B. P. M. 8463
Hyland, C. D. 4440
Hymowitz, T. 3943, 7082, 12837, 12914
Hýža, V. 228
Iacono, F. 5287
Iannacone, R. 697
Iannamico, V. 610, 697, 4087
Iannelli, P. 3972
Iapichino, G. 11042
Iba, K. 6995, 11207, 13232
Ibrahim, E. A. 1249
Ibrahim, F. H. 8756
Ibrahim, G. 13245
Ibrahim, R. 6319
Ibrahim, T. 4962
Ichi, T. 5134
Ichida, A. 6966, 7864
Ichihara, K. 10358
Ichii, M. 416
Ichii, T. 10738
Ichikawa, A. 3049
Ichikawa, H. 393, 8352
Ichikawa, K. 12004
Ichikawa, S. 9876, 12256
Ichikawa, T. 9720, 10927, 12155
Ichimura, K. 11085, 11089
Ichinose, Y. 5043
Ida, S. 10351
Iddi, S. 7476
Ide, Y. 12185
Idrees, G. 2087, 10860
Idris 5829
Ieki, H. 3163
Ierna, A. 2860
Iezzoni, A. F. 750, 11982, 13062
Iftikhar, K. 8163
Iftikhar Ahmed 3586
Igersheim, A. 6566
Iglesias, C. 3020, 5126
Iglesias, J. 4086, 8355
Iglesias, L. 1571
Iglesias, L. A. 8912
Iglesias, V. A. 156, 2456, 3812, 7738, 7770, 11310
Igloi, G. L. 10231, 10234
Ignacimuthu, S. 1766
Ignatenko, V. A. 10446
Ignatius, S. M. J. 7856
Ignatova, S. A. 10275
Īgnatsenka, V. A. 10446
Igonin, V. N. 4668
Igue, T. 4272
Ihsan Khaliq 11346
Iida, A. 9920
Iida, K. 12435
Iida, S. 4893, 8675, 9228, 12734
Iida, T. 4410
Iida, Y. 291
Ijaz, M. 1966
Ikase, L. 3134
Ikeda, F. 9581
Ikeda, H. 8004, 11554
Ikeda, M. 1144, 4179
Ikeda, R. 446, 2724, 9240
Ikehashi, H. 4128, 5199, 12733, 12967
Ikemiya, H. 793, 8446
Ikemura, T. 9999
Ikenaga, H. 4315
Ikenaga, T. 2218
Iketani, H. 8628
Ikezawa, Z. 9228
Ilag, L. L. 6676
Ilangovan, R. 5747
Ilani, N. 6518
Ilcheva, V. P. 11081, 11087
Iler, S. E. 3080
Ileršič, J. 1660
Iliescu, H. 524
Il'ina, L. G. 4665
Illg, R. D. 5142
Ilnicki, T. 9504
Iltis, H. H. 8689
Ilyas, M. B. 8163
Imai, K. 10661
Imai, T. 3816, 12961
Imakawa, S. 4123
Imanishi, S. 3272
Imanywoha, J. 12796
Imaseki, H. 3501, 9440
Imbe, T. 12771
Imbernon, M. 4490
Imhoff, V. 13203
Immonen, T. 3703
Imoberdorf, R. 10239
Impe, G. van 7562
Impembo, M. 6266
Impiombato, D. 7802
Imrie, B. C. 2275, 2937, 3447, 6103, 9434
Inaba, K. 7640
Inada, I. 1001
Inagaki, M. 12533
Inagaki, N. 10636
Inagaki, Y. 8675
Inai, S. 5199
Inamdar, A. C. 4047-4048
Inamdar, D. G. 3774
Inami, S. 480
Inamullah 1920
Inamura, H. 1275
Inayatullah, C. 1374, 8943
Inch, M. J. 10433
Incoll, L. D. 1291
Inderpal Singh 849
India, Central Institute of Medicinal and Aromatic Plants 3434, 3436, 6613
India, Indian Agricultural Research Institute 2249
India, National Board for Plant Genetic Resources 5830, 6427
India, National Bureau of Plant Genetic Resources 1068, 1072
India, Sugarcane Breeding Institute 880, 893, 2001, 2248, 3255-3256, 3262, 7566, 12103
Indira, P. 7176
Indiresh, K. M. 1059, 6609
Indra, M. 8988-8989
Indra Hooda 2929
Indriūnaitė, A. 2596
Indu Sharma 2528
Indulski, J. 6503
Infante, R. 2392
Infantino, A. 7075
Informatore Agrario 1904-1905, 6819, 6880
Ingle, R. W. 9170
Ingole, O. V. 8580
Ingram, D. S. 3209-3210, 4224
Ingram, K. T. 1553, 1599, 11605
Ingram, R. 13280
Innes, D. J. 13355
Innes, R. W. 1168, 3529
Innocenti, A. M. 7670
InnovaPlant GmbH & Co. KG 3389
Ino, I. 9875
Inohara, N. 8810
Inokuchi, H. 9563, 11381
Inomata, N. 3197
Inoue, H. 1918
Inoue, K. 3093
Inoue, T. 5801, 8005, 10354, 11558
Inouye, J. 1555
Intapruk, C. 3511, 7626
International Board for Plant Genetic Resources 135, 382, 384, 855, 901, 1039, 2258-2259, 3440, 4249, 4515, 4947, 6248, 7973, 7983, 8211, 9413
International Center for Agricultural Research in the Dry Areas 4513, 5687
International Lupin Conference 5694
International Network for the Improvement of Banana and Plantain 7563
International Potato Center 12336
International Rice Research Institute 8750
International Society for Horticultural Science 4516, 6623, 8753-8754, 12308
International Union of Forestry Research Organizations 7567
Inukai, T. 3858
Inzé, D. 3513, 3526, 5538, 6084, 6209, 6281, 6479, 6495, 7436, 8344, 8541, 8782, 9951, 10017, 12152
Ioannides, I. M. 11252
Ioannou, M. 6598
Ioannou, N. 5190, 6598
Ĭonchev, G. 10942
Ioniţă, L. 13270
Iori, R. 8480
Iqbal, M. 1967
Iqbal, M. C. M. 10839
Iqbal, M. J. 11407, 13333-13334
Iqbal, N. 4727
Iqbal, S. M. 6619, 8229
Iqbal Singh 11323, 11332
Iraçabal, B. 1067, 4502, 13403
Ireholm, A. 4663
Ireland, H. E. 7068
Irifune, K. 8228
Iriki, N. 12565
Irish, E. E. 1421, 12672-12673
Irizarry, H. 1912
Irkaeva, N. M. 10773
Irlam, I. 3084
Irulappan, I. 725-726, 1885, 1916, 3081, 5163, 7085, 7372, 11875
Irungu, J. W. 867
Irvine, J. E. 3258
Irving, E. 13340
Irwin, J. A. 2349
Irwin, J. A. G. 1652, 2937, 9434, 10433, 10443
Isaac, P. G. 5365-5366, 8199, 12316, 12489
Isaac, S. 4016, 9525
Isaacs, A. R. 539
Isachkin, A. V. 1901
Ise, H. 10707
Ise, K. 3857
Isebrands, J. G. 5522, 5545-5546, 6535-6536
Iseli, B. 3278
Isenhour, D. J. 2700, 3779, 6910-6911
Iser, M. 1144, 1230
Ish-Shalom-Gordon, N. 9683
Ishchenko, L. A. 8403
Ishida, F. 4362, 4384
Ishida, S. 5447
Ishigaki, K. I. 5459
Ishige, F. 9440
Ishiguro, S. 9484
Ishihara, H. 2431
Ishihara, J. 4024, 5139
Ishihara, K. 9215
Ishii, T. 8057
Ishikawa, K. 5199, 12761
Ishikawa, M. 505, 12718
Ishikawa, N. 8948
Ishikawa, R. 735, 12730
Ishikawa, S. 4123
Ishiki, K. 10571
Ishimaru, K. 8004, 11554

Ishimine, Y. 1545
Ishimoto, M. 542-543, 593
Ishiuchi, D. 793
Ishizaka, H. 1023
Ishizawa, Y. 8405-8406, 8413
Ishkova, T. I. 12580
Ishtiryakova, F. K. 6776
Iskakov, B. K. 7736
Iskander, G. M. 13175
Islam, A. K. M. R. 2593
Islam, A. S. 960, 2731
Islam, H. 947
Islam, M. O. 7129
Islam, M. R. 3334
Islam, M. S. 4195
Islam, R. 813, 5325, 10531, 10826, 13112
Islam, R. M. 10191
Islam, T. 655
Islam, Z. 1509
Islas-Rubio, A. R. 1452
Isleib, T. G. 9329-9330, 9687
Ismail, A. M. 10553
Ismail, C. 1571
Ismail, S. 12051
Ismail, S. I. 12991
Isogai, A. 9663
Israeli, Y. 4173
Israilev, L. R. A. de 5641-5642
Issaka Magha, M. 4226
Itadani, H. 5452
Italy, Istituto Sperimentale per la Cerealicoltura 2247
Itam, K. 13278
Ithayarajan, A. 11550
Ito, H. 8012
Ito, K. 9244
Ito, M. 8726, 8948, 9911
Ito, M. F. 2896, 9370
Ito, S. 12208
Ito, T. 10705
Ito, Y. 8445, 10408, 11747
Itoh, H. 4305, 6497
Itoh, K. 447, 1301, 1301
Itoh, Y. 9337
Ittersum, M. K. van 9463
Ittu, G. 2542
Ittu, M. 2542, 12563
Iturriaga, E. A. 5046
Iturriaga, G. 6577
Iturriaga, L. 4196
Itzhaki, H. 4425
Iudicello, P. 7117
Iuoraş, M. 7335
Iusem, N. D. 5172, 9539
Ivakin, A. 11138
Ivanov, Ĭ. 10784
Ivanov, P. 846, 7347
Ivanova, I. 7347
Ivanova, I. V. 327
Ivanova, O. A. 161, 11283
Ivanović, D. 4851
Ivanović, M. 9960
Ivashchenko, V. G. 6905, 11501
Iwabuchi, M. 188, 1276, 6021, 7737, 9484
Iwamasa, M 793
Iwamasa, M. 10809
Iwamoto, H. 10481
Iwanaga, M. 6240, 8244, 11145
Iwasa, Y. 5818
Iwasaki, M. 4024, 12771
Iwasaki, N. 9622
Iwasaki, T. 2352
Iwata, N. 10334
Iwatsubo, T. 9536
Iwatsubo, Y. 761, 2178
Iwatsuki, K. 8726
Iyer, C. P. A. 4183, 4190
Iyer, V. 7416, 10976
Iyer, V. N. 2326
Izhar, S. 6585
Izuchi, S. I. 7389
Jaaska, V. 7760
Jabbar, A. 1892
Jablonka, E. 1171
Jabs, T. 3435
Jach, G. 6500
Jachuck, P. J. 412, 1543, 3835
Jacinto C., H. 5383
Jack, P. 6823, 12607
Jack, P. L. 272, 3669, 12999, 13147
Jack, T. 7648
Jackai, L. E. N. 6216, 9435, 9437
Jackowiak, N. 1795
Jackson, B. L. J. 4950
Jackson, D. 4436
Jackson, D. M. 2078
Jackson, J. F. 1922
Jackson, M. 3793
Jackson, M. T. 6973
Jackson, N. 1630
Jackson, P. A. 2020, 12102
Jackson, P. R. 8105, 9286
Jackson, P. S. W. 4535
Jackson, S. 3592
Jackson, S. A. L. 12299
Jackson, S. D. 3579
Jackson, W. A. 11458
Jacobo Cuéllar, J. L. 9392
Jacobs, M. 8808, 10913, 11527, 12114, 12187
Jacobs, S. W. L. 2818, 3424
Jacobs, T. 259, 4661, 7571
Jacobsen, E. 2969, 3998, 4017, 6233, 7166, 8239, 9457, 10575, 11804, 11812, 11848, 13421
Jacobsen, H. C. 5229
Jacobsen, H. J. 11743
Jacobsen, J. V. 267
Jacobsen, S. E. 10660
Jacobsohn, R. 9683
Jacq, B. 895
Jacqmard, A. 11628
Jacquemond, M. 10948
Jadari, R. 2954, 2985
Jadeja, R. G. 9393
Jadhao, B. J. 4066
Jadhav, B. B. 6013
Jadhav, S. D. 3786
Jadhav, S. S. 9180
Jadhawar, V. T. 7302
Jaeck, E. 5469, 6507
Jafarpour, B. 7272
Jaffar, A. K. 8163
Jafri, S. J. H. 411, 439, 1966-1968, 6048, 6974
Jag Shoran 6756
Jagadish, B. N. 9681
Jagadish, C. A. 1982, 2925, 4252
Jagadish, V. C. 3644
Jagannathan, V. 1144, 3194
Jagdeep Singh 7133
Jagdish Chandra 10561
Jagendorf, A. T. 4584
Jager, C. M. de 3405, 4434, 12259
Jäger-Gussen, M. 2576
Jagiello, C. 789
Jagmail Singh 5500
Jagmeet Kaur 8152
Jagtap, D. B. 6330
Jagtap, J. G. 500, 4331
Jagtap, R. A. 7375
Jagtap, S. S. 7847
Jahan, B. 1350
Jahan, Q. 193-194, 1350
Jahier, J. 3884, 7733
Jahns, G. C. 2266
Jahoor, A. 1345, 2547, 12625
Jahufer, M. Z. Z. 8112
Jai Gopal 5112, 10594
Jain, A. 8471, 11208
Jain, A. K. 8096
Jain, B. P. 10623
Jain, D. K. 5495
Jain, J. 11904
Jain, M. 7596, 9691
Jain, P. K. 2880, 4755, 10168
Jain, P. P. 4321
Jain, S. C. 11788
Jain, S. K. 10, 93, 3923, 5064, 10434
Jain, S. M. 4387, 13196
Jaiswal, R. C. 6270
Jaiswal, V. S. 5332
Jaiwal, P. K. 592, 7154-7155, 10559, 11787
Jakhmola, S. S. 5379
Jakobek, J. L. 8059
Jakobsen, K. S. 11274, 11378
Jakubczyk, T. 7875
Jakubowski, S. 4910
Jakuczun, H. L. 2971
Jalali, B. L. 5735
Jalaluddin, M. 1109
Jalani, B. S. 12066
Jalilova, F. 1164
Jamadagni, B. M. 583, 862, 6013, 6863
Jambhale, N. D. 10713
Jambunathan, R. 7362, 13161
James, A. R. 3879
James, C. D. 3373
James, D. J. 4120, 13049, 13052
James, D. W. 7057
James, D. W., Jr. 12417
James, E. A. 9845
James, M. G. 9085
Jamet, E. 9727, 10934
Jamilena, M. 7206, 7524
Jamjod, S. 2512
Jampatong, S. 11470
Jamro, G. H. 11703
Jan, C. H. 11593
Jan, F. 4895, 4897
Jan, S. P. 11588
Jana, S. 1255, 1753, 6113, 7689
Jana, S. C. 11067
Janagoudar, B. S. 5493
Janakiram, T. 4114
Janati, A. 7308
Jančys, Z. 2840
Janda, T. 11348
Jane, J. 1454
Janečková, M. 11988
Jang, S. S. 8595
Jangulo, M. C. 3751
Janick, J. 738, 3120, 3276, 3557, 4288, 7569
Janicka, M. 11643
Jankun, A. 7453
Janniche, L. 1801
Jansen, J. 3419, 7240, 13010
Jansen, R. 11195
Jansen, R. C. 3876, 8543, 8828, 9494
Jansen, R. K. 2398, 2404, 3568, 8108
Jansen, T. 7202
Jansens, S. 683
Janska, H. 2887, 10505
Jansman, A. J. M. 5010, 5012-5013
Janson, J. 2209, 8709
Janssen, B. J. 4163
Jansson, C. 11176
Jansson, G. 5579
Japan, National Institute of Agrobiological Resources 2246
Japanese Journal of Breeding 140, 8864
Jaquiéry, R. 1388
Jaquish, B. C 5605
Jaradat, A. A. 7717
Jarchow, E. 5990
Jardin, P. du 5031, 5087
Jardinaud, M. F. 5349
Jarillo, J. A. 12409
Jarnail Singh 5196
Jaroli, R. K. 3251
Jarret, R. L. 787, 864, 3029
Jarvis, A. R. 7443
Jarvis, C. E. 1034
Jarvis, P. 7616
Jasbir Kaur 1572
Jasińska, Z. 5003
Jaśkiewicz, T. 12049
Jasmine, A. P. J. 7222, 7233
Jasnić, S. 9372
Jasrai, Y. T. 7546
Jassem, B. 2039
Jasso-A., J. 11983
Jastorff, B. 11384
Jaswinder Singh 6211
Jatimliansky, J. R. 9146
Jature, S. D. 7302
Jauhar, P. P. 7742
Jauniaux, J. C. 11223
Javaid, I. 7145
Javed, H. I. 7912
Javed, M. A. 1958
Javelle, F. 2073
Javornik, B. 1126, 1285, 1315, 1891, 3865, 9974
Jawaharlal, M. 1916
Jaworski, J. G. 6254
Jay, M. 3232, 8664
Jay, P. 6386
Jay, V. 7175
Jayabalan, N. 7513
Jayachandran, B. K. 3431
Jayalakshmi, R. 1979
Jayalekshmy, A. 13392
Jayamani, P. 4887, 6934
Jayamani, R. 5410
Jayapragasam, M. 5732
Jayaprakash, T. L. 6962
Jayaraj, S. 5733
Jayasankar, S. 726
Jayasekera, S. J. B. A. 9421
Jayashankar, R. 8576
Jayashankar, R. W. 7414
Jayashree Madhavan 12179
Jayasinghe, U. 8263
Jayawardena, S. D. G. 1868, 13370
Jaynes, J. M. 4549, 9965
Jean, F. I. 9940
Jean, R. 13222
Jean-Jacques, I. 4159, 8807
Jeannette, E. 5973
Jebaraj, S. 12712
Jebari, H. 8369
Jedel, P. E. 11373-11374
Jędryczka, M. 2915
Jefferies, R. A. 7163-7164, 9474-9475, 13074
Jeffers, D. P. 3327
Jefferson, P. G. 8078, 9260, 9265
Jelaska, S. 779
Jelinowska, A. 11645
Jellen, E. N. 3687, 6860-6861, 10142
Jellis, G. J. 3446, 6153, 8139, 8169
Jena, K. K. 8016, 12716
Jenabzadeh, P. 13190
Jende-Strid, B. 3678
Jenkin, M. 13366
Jenkins, C. L. D. 4818
Jenkins, G. I. 8175
Jenkins, J. N. 3317, 6522, 13421
Jenkins, M. E. 6675
Jenks, M. A. 6931
Jenner, C. 12900
Jennings, D. L. 10621
Jensen, A. B. 1420, 7919
Jensen, B. 4776
Jensen, E. Ø. 10464
Jensen, H. P. 1372, 4777
Jensen, J. 2586, 4777
Jensen, K. B. 6735, 6739, 7033, 8077, 12796
Jensen, P. 38
Jensen, R. J. 6535-6536
Jeong, M. G. 5113, 6241
Jeong, S. E. 3212
Jerez, E. 10675
Jerić, Z. 4714
Jerković, Z. 2541
Jermini, M. 7257
Jermstad, K. D. 12211
Jernstedt, J. A. 8226-8227
Jessen, D. L. 1649-1651, 2823, 3908-3909
Jessop, A. 2353
Jessup, L. W. 4482
Jestin, L. 7733
Jeswani, M. D. 2996
Jetten, J. 5008
Jevtić, R. 2541
Jewell, D. 351
Jewell, D. C. 10304
Jeyanthi Ramamoorthy 6467
Jeyarajan, R. 4877

Jha, D. K. 3978, 10546
Jha, K. 7959
Jha, K. K. 5535, 10999
Jha, M. N. 6890
Jha, P. B. 423, 6037, 6755, 8503, 11589
Jha, R. R. 7537
Jha, S. 4931
Jha, S. S. 12810, 12913
Ji, F. 12839
Ji, F. G. 3698
Ji, G. S. 7982
Ji, H. C. 9113-9114
Ji, J. 5941
Ji, K. Z. 11303
Ji, L. 8146
Ji, L. H. 6871, 7748
Ji, W. 2108
Ji, W. Q. 199
Ji, Y. 790
Ji, Y. M. 6496
Jia, B. S. 171
Jia, D. X. 7255
Jia, J. X. 8392
Jia, J. Z. 207, 12504
Jia, L. J. 357
Jia, S. E. 10086
Jia, S. F. 7947
Jia, X. 10086
Jia, Z. W. 1423
Jian, Y. Y. 426, 10375
Jiang, C. J. 396, 2220, 9217
Jiang, C. L. 790
Jiang, C. M. 11598
Jiang, C. Q. 9625
Jiang, C. Y. 12927
Jiang, C. Z. 8557, 8914, 11216, 12125
Jiang, D. X. 2105
Jiang, G. L. 8920
Jiang, H. 413, 1290, 9178, 10386
Jiang, H. C. 433
Jiang, H. F. 12088
Jiang, H. J. 5260
Jiang, H. R. 2460, 7874
Jiang, H. Z. 3328
Jiang, I. B. J. 148
Jiang, J. 8940
Jiang, J. D. 845, 1527
Jiang, J. G. 964
Jiang, J. M. 2476, 2572, 7750
Jiang, L. 734, 10221
Jiang, L. J. 170, 191, 335, 5861
Jiang, L. Q. 1490
Jiang, M. L. 7090, 11725
Jiang, N. 2747
Jiang, Q. N. 2726
Jiang, Q. Y. 1677
Jiang, R. W. 12087
Jiang, R. X. 8432
Jiang, S. H. 10322
Jiang, X. H. 408
Jiang, Y. 1278
Jiang, Y. M. 10741
Jiang, Y. Y. 9552
Jiang, Z. B. 5314
Jiang, Z. S. 2751
Jiao, C. H. 10452
Jiao, D. M. 6035, 10383-10384
Jiao, M. Z. 10960
Jie, Y. Q. 1576
Jiménez, D. 12340
Jiménez, J. 12291
Jiménez, M. M. 2648, 3697, 7869, 12644
Jiménez Díaz, F. 3167
Jiménez-Díaz, R. M. 2932, 4243, 6210, 8140
Jiménez González, C. A. 6859
Jiménez Mora, J. M. 3085
Jimenez-Moraila, B. 11616
Jin, G. 4554
Jin, G. H. 10786
Jin, G. L. 4031
Jin, H. R. 171
Jin, J. M. 434
Jin, J. P. 11717-11719
Jin, K. S. 2760, 2763
Jin, L. 5792
Jin, S. E. 10560
Jin, S. G. 5653, 8800
Jin, T. 1811, 2241
Jin, W. L. 5073
Jin, Y. 2639, 5921, 6461, 7034, 10193
Jin, Y. G. 409
Jin, Y. K. 12660
Jin, Y. Y. 6120
Jin, Y. Z. 12566
Jin, Z. F. 9737, 12161
Jindal, K. K. 3133, 4119, 4132
Jindal, P. C. 4154
Jing, J. K. 11317
Jing, T. Y. 4881
Jinks, J. L. 12116
Jinn, T. L. 6646
Jirsak, A. 2027
Jitendra Singh 1816
Jividen, G. M. 4337, 9744
Jlibene, M. 6805
Joachimiak, A. 4930, 9504
Joannes, H. 4373
Joarder, O. I. 813, 5325, 10826, 13112
Job, D. 10647
Jobling, J. 8384
Jocković, Đ. 503, 9372
Jodari, F. 386, 1517
Jodo, S. 7083
Joe, L. 3293, 8565
Joerger, R. D. 2320
Jofuku, K. D. 2359
Jogdand, S. D. 7302
Jogloy, S. 10887
Johal, G. 7897, 7956, 7967, 9092, 11428
Johal, G. S. 11498
Johannessen, S. 12312
Johansen, C. 6111, 11772
Johansen, R. H. 11828
Johansson, E. 897, 1319
Johjima, T. 13007
John, C. K. 9945
John, I. 325
John, J. L. 625
John, K. J. 12829
John, M. 912
John, M. C. 5780
John, S. E. T. 2141
Johnkutty, I. 3795
Johns, C. 5023
Johnsen, K. H. 5598
Johnsen, Ø. 11028, 12218
Johnson, A. 6920
Johnson, A. W. 2078, 10940
Johnson, B. E. 11522, 12691
Johnson, B. L. 7348
Johnson, C. E. 754, 10752
Johnson, C. W. 9227
Johnson, D. 7931, 11455
Johnson, D. A. 1625, 3921, 4925, 5160, 8075
Johnson, D. L. 6890, 7014
Johnson, D. M. 5569, 7473
Johnson, D. T. 1900, 9602
Johnson, D. W. 9287
Johnson, E. 2360, 10025, 10937
Johnson, G. D. 11370
Johnson, G. R. 2110
Johnson, G. W. 12077
Johnson, J. R. 10288-10289
Johnson, J. W. 176, 2488, 5896
Johnson, L. A. S. 3342
Johnson, M. A. T. 994
Johnson, M. B. 1668
Johnson, R. 3446, 6655, 6796
Johnson, R. A. 7534
Johnson, R. C. 1631, 9285
Johnson, S. 6268, 7109, 13014
Johnson, S. D. 9893, 11090
Johnson, V. A. 168, 13421
Johnson, W. C. 2669, 3315, 6726, 7024, 9384
Johnson-Cicalese, J. M. 1630
Johnston, H. W. 178
Johnston, J. S. 6547, 7410
Johnston, K. A. 8281
Johnston, M. O. 12252
Johnston, R. P. 2575
Johnston, S. 5989
Joi, M. B. 6283
Jokela, P. 10632
Jokś, W. 11634
Joksimović, J. 7340
Joksimović, S. 7817
Jolivet, Y. 10552
Jolliffe, T. H. 12116, 13192
Jolliot, A. 12382
Jolly, C. A. 4312, 12944
Joly, H. I. 5560, 9802
Joly, P. B. 26, 13418
Jondle, R. J. 5722, 11158
Jones, A. 1806, 3030
Jones, A. M. 3512
Jones, A. T. 13055
Jones, B. 4770
Jones, B. L. 5918, 10155
Jones, C. 8598
Jones, C. S. 6288
Jones, D. A. 3070-3071, 7109, 7210, 7231, 8341, 11880, 13018
Jones, D. L. 12277-12278
Jones, D. R. 10804
Jones, G. E. 5478
Jones, G. H. 105
Jones, G. W. 9857
Jones, H. 10988
Jones, H. G. 1110
Jones, J. 1844, 4044, 6579, 10377
Jones, J. B. 5184
Jones, J. D. 7522
Jones, J. D. G. 3067, 3070-3071, 3530, 7210, 7231, 8341, 8346, 11226, 11880, 13018
Jones, J. E. 9758
Jones, M. G. K. 192
Jones, M. W. 11421
Jones, N. B. 2204
Jones, P. 5874
Jones, P. N. 890
Jones, R. A. 8337, 13021
Jones, R. A. C. 4008
Jones, R. L. 9058
Jones, R. N. 2648, 12644
Jones, S. K. 9857
Jones, S. S. 3632, 7031, 12520
Jones, T. A. 4928
Jones, T. L. 667
Jones, T. M. 4254
Jones, T. W. A. 8110, 9294
Jones, W. T. 8118
Jong, A. de 1803
Jong, E. R. de 6065
Jong, F. S. 2239
Jong, G. de 4608, 7678
Jong, H. de 1786
Jong, J. de 3404, 12260
Jong, J. H. de 7217-7218
Jong, P. C. de 7575
Jong, S. C. 4488, 13407
Jong, T. J. de 4434, 4637, 12449
Jongedijk, E. 5115, 10607
Jongerius, R. 1817
Jongewaard, I. 7079
Jonker, H. H. 3010
Jönsson, H. A. 7020, 12782
Jonušytė, R. 2843
Joon, M. S. 4194
Joosten, M. H. A. J. 6276
Joppa, L. R. 3606
Jopson, M. 5799
Jordan, B. R. 1160, 2265
Jordan, G. J. 2123
Jordán, M. 2966
Jordan, M. 4196, 5334, 10825
Jordan, M. C. 8186
Jordana, X. 142, 12931
Jordano, J. 4237, 12057
Jordano, P. 7275
Jørgensen, H. J. L. 7857
Jorgensen, J. A. 7951
Jørgensen, J. H. 1372, 2624, 4777, 6848-6849, 7859
Jørgensen, P. M. 11013
Jos, J. S. 11857
Jose, A. I. 6391, 6626
Josefsson, L. G. 4204
Joseph, J. K. 5059
Joshee, N. 9817
Joshi, A. 6638, 12098
Joshi, A. B. 21
Joshi, A. K. 212, 1292, 5019, 5069, 5898
Joshi, C. P. 4677, 4679, 5997, 6917, 7731, 12372
Joshi, H. C. 6673
Joshi, K. C. 12204
Joshi, M. S. 885, 3775, 4235
Joshi, N. P. 7990
Joshi, N. V. 94, 8791
Joshi, P. 4327, 5502
Joshi, P. A. 3920
Joshi, P. K. 3969
Joshi, R. 6918
Joshi, R. C. 208, 448
Joshi, S. 4085, 10625
Joshi, S. C. 6768
Joshi, S. D. 9918
Joshi, S. S. 12060
Joshi, V. R. 10690
Joshi, Y. C. 4262
Joshua, D. C. 491, 1681
Josse, J. M. 7879
Jouan, B. 2980
Jouanin, L. 3495, 4207, 8303, 12186, 12392
Joubert, A. J. 12018
Joubert, D. 1097
Joubert, H. L. N. 1990-1991
Joubert, T. G. la G. 6249
Joudrier, P. 7733, 8882
Joulie, A. 11471
Jourdan, P. 5361
Jourjon, M. F. 1156
Journet, E. P. 3918, 11666
Jousset, J. C. 8495
Jouve, N. 2662
Jovanović, B. 28, 4714
Jovtchev, G. 6825
Joy, K. 476
Joy, P. 1296
Joyce, C. M. 5954
Juan, N. A. 9284, 10426
Jubier, M. F. 3590, 6743, 9996
Judd, W. S. 9899-9900
Judziewicz, E. J. 5679, 6616
Juge, N. 5906
Jui, P. Y. 12873
Julian, A. M. 2711, 12682
Juliano, B. O. 1550, 1586-1587, 11597, 12747
Julier, B. 1455, 4957, 6094, 8120, 10440
Julkunen-Tiitto, R. 9790
Julliard, J. 4207
Jullien, F. 11118
Jullien, M. 7396, 8319, 8554, 13222
Jumaat Haji, A. 13381
Jun, H. J. 10661
Jung, C. 2029, 12113, 13189
Jung, J. L. 3954
Jung, K. H. 9919
Jung, S. H. 933
Jürgens, G. 1162, 8817, 12412, 12421
Jurica, M. S. 11445
Jurík, M. 12904
Jurnak, F. 1116
Jusaitis, M. 13337
Jusienė, S. 2950
Justin, J. R. 12828
Jutamanee, K. 11929
Juvik, J. A. 3751, 5180, 8335, 9554, 11463
Jyothi, A. R. 5200
Jyothi Bhaskar 8439
Ka, Y. 1527
Kaan, F. 3635, 8907
Kabaki, N. 12728
Kabanowska, B. H. 5270
Kabir, J. 6227
Kachlicki, P. 2915
Kacprzyk, A. 7875
Kączkowski, J. 4798
Kaczmarek, Z. 12433
Kaczor, C. M. 10470
Kadambavanasundaram, M. 6979, 11592

Kadapa, S. N. 4319, 4330, 5511
Kade, M. 1676
Kader, J. C. 12382
Kadio, A. 5559
Kadioğlu, A. 1022
Kadir, S. A. 13065
Kadlec, M. 11704
Kadlicskó, S. 2418, 12942
Kado, C. I. 1148
Kadota, Y. 13389
Kadotani, N. 8237
Kadowaki, K. I. 12718
Kadu, S. 6428
Kaemmer, D. 8207
Kaeppler, S. M. 2685, 7662
Kaewsompong, S. 10803
Kaga, A. 1763
Kagami, Y. 9868
Kagan-Zur, V. 13000
Kagaya, M. 9570
Kageyama, P. Y. 969, 12175-12176, 13285
Kageyama, Y. 8001
Kahia, W. J. 6470
Kahl, G. 1112, 2266, 4209, 8207
Kahn, T. L. 1840
Kaim, M. S. 7852
Kainz, W. 2282
Kaiser, K. 12133
Kaiser, T. 8491, 8733
Kaiser, W. J. 8131, 8138-8139
Kaiser, W. J., Jr. 6197
Kaizuma, N. 3198, 4034, 12973
Kajdi, F. 4768, 5060, 5374, 5671
Kajiwara, H. 281, 9333
Kajiya, H. 13382
Kajiyama, K. 8737
Kajiyama, T. 10912
Kakes, P. 9297
Kákoniová, D. 5597
Kaku, H. 8043
Kakutani, M. 8426-8427, 9597
Kałasa-Janowska, M. 6251
Kalathiya, K. V. 6390
Kal'chenko, V. A. 3354
Kaldenhoff, R. 4588
Kale, H. B. 5887
Kale, P. B. 4066, 4068, 4080, 10672-10673
Kale, P. N. 4191, 6283, 6330, 10690, 10814, 10824
Kaleikau, E. K. 392
Kalimuthu, K. 9775
Kalinganire, A. 9798
Kalinina, O. Yu. 12424
Kalinina, S. 2579, 2597
Kalita, M. C. 1589
Kalita, U. C. 7996
Kalla, R. 12600
Kallak, H. 2390
Kalliola, R. 10410
Kalloo, G. 1232, 5168, 5700, 7172
Kalm, K. 2342
Kalnina, J. 3376
Kaló, P. 7051
Kalode, M. B. 3863
Kalore, R. M. 6512
Kaloshian, I. 7234
Kalpana, R. 6212
Kaltchuk-Santos, E. 8151
Kaltsikes, P. J. 300, 4802
Kam, R. J. de 4291, 4470
Kamada, H. 2352, 3014, 5133, 7173
Kamal, N. Q. 4906
Kamal-Eldin, A. 13175
Kamalay, J. C. 9254
Kamata, N. 13153
Kamau, H. N. 1088
Kamble, M. Y. 2723
Kamble, T. C. 6933, 7136, 9223, 10871
Kameda, K. 5329, 10819
Kamemoto, H. 2179, 8712, 13376
Kamendra Singh 2852
Kamenetsky, R. 3037
Kameya, T. 2683, 8283
Kami, J. 4298, 9427
Kamijima, O. 1763, 2071
Kamio, M. 8948
Kamis Awang 9792, 13277
Kamisugi, Y. 6824
Kammen, A. van 557, 1803, 2938, 3967, 4013
Kammereck, R. 5399
Kammerer, B. 4816
Kammerloher, W. 11217
Kamo, K. 4438
Kamo, K. K. 4311
Kamp, B. J. van der 9770
Kamra, O. 1228
Kan, J. A. L. van 6276, 6658
Kanabe, M. 480
Kanapeckas, J. 2797
Kanazawa, A. 6019
Kanazawa, T. 10635
Kanazin, V. 6822
Kanchama, K. 11929
Kandalkar, H. G. 4905
Kandalkar, V. S. 2224
Kandasamy, G. 1492, 1495, 1498-1500, 1504, 12099
Kandasamy, K. I. 9490
Kandil, A. A. 2040
Kaneda, C. 2530, 3594, 12566, 13421
Kanegae, T. 13382
Kaneko, Y. 3993, 12889
Kanesaka, M. 8065
Kaneta, H. 5663
Kaneyoshi, J. 10805
Kang, B. J. 7622
Kang, C. H. 6460
Kang, C. L. 2751
Kang, G. S. 601, 10564
Kang, H. 13275
Kang, I. J. 3942
Kang, K. K. 2683
Kang, M. S. 3758, 9005
Kang, N. 5303
Kang, S. H. 6882
Kang, S. L. 2531
Kang, S. S. 1993, 11083, 13283
Kang, Y. F. 8109
Kang, Y. Q. 12986
Kang, Y. S. 5881
Kaniewski, W. K. 4480, 9968
Kannan, K. 6375, 6389
Kannan, N. 3275
Kannangara, C. G. 9563
Kanno, A. 397, 6018
Kanno, T. 10698, 13040
Kano-Murakami, Y. 393, 10273, 12674
Kanowski, P. J. 5524, 7443, 7482
Kan'shina, M. V. 10751
Kanta, U. 9151
Kantorowicz-Bąk, M. 10732, 13051
Kanwal, K. W. 8021
Kanwal Preet 6802
Kanwar, R. S. 883
Kanyion, P. 7353
Kanzaki, H. 5088
Kanzaki, J. 5152
Kao, M. C. 4018
Kao, T. H. 1235, 2182, 6582, 11077, 12262, 12445
Kao, Y. Y. 13230
Kapała, A. 284, 12617
Kaper, J. M. 13236
Kapil Singh 3194
Kapila, R. K. 2862, 5842, 6956, 8156, 8868
Kaplankiran, M. 8460
Kapoor, A. C. 11785
Kapoor, A. S. 2459, 2912
Kapoor, R. L. 1506, 10325
Kapoor, S. 2347, 6020, 12128, 12737
Kapoor, S. K. 9419
Kapoor, S. P. 13088
Kapoor, W. R. 1392, 1410, 1425, 1461
Kapoor-Vijay, P. 13, 1078
Kappeler, S. 8492, 9676
Kapur, R 2934
Kapur, S. P. 5322
Kara, A. N. 5048
Karabaev, M. K. 12536
Karabanchuk, N. F. 5428
Karachi, M. 12194
Karagiannis, C. S. 9505
Karaĭvanov, G. L. 10217
Karale, A. R. 4191, 10824
Karale, M. U. 9422
Karambir Singh 5985
Karan, M. 2722
Karan Singh 8532
Karanjkar, R. R. 2715-2716
Karanth, N. G. K. 2759
Karas, M. 7202
Karavaev, V. A. 5216-5217
Kärcher, B. 5740
Karchi, H. 10683
Kardailsky, I. 3967
Kardel-Meisner, U. 7277
Kareem, A. A. 7992
Kareeros, P. 11715
Kareiva, P. 1117, 2262, 5380
Kares, C. 928
Karhu, S. T. 5224
Kari, A. G. 10187
Karim, M. A. 7876
Karim, M. R. 813, 10826, 13112
Karimi, M. M. 8892
Karimiyan, A. 12886
Kariuki, J. W. 9515
Kariyawasam, J. C. 12373
Karjalainen, M. 2131
Karkara, B. K. 4119, 4132
Kärkkäinen, K. 2134, 5582
Kãrle, R. 5628
Karlin-Neumann, G. A. 5771
Karlsson, B. H. 3522
Karmakar, P. G. 11706, 11726
Karn, J. F. 9261
Karnaukhova, T. B. 10864
Karnosky, D. F. 5522, 5545-5546
Karol, K. 3188
Karol, K. G. 2398
Karolevski, P. 11746
Karolewski, P. 11746
Karow, R. S. 8878, 11300
Karp, A. 1384, 2648, 4802, 5807, 12596
Karpinska, B. 2130, 6553, 11026
Karpinski, S. 2130, 6553, 11026
Karr, A. L. 11646
Karron, J. D. 11853
Karrou, M. 4694
Karsai, I. 4687, 4723, 4731
Karssen, C. M. 81, 146, 1077, 5784
Kartavtsev, Yu. P. 1172
Kartel', N. 2951
Kartel', N. A. 4795, 10207, 11406
Kartha, K. K. 1330, 1365, 4678
Kartoffelbau 7171
Karunakar, R. I. 12696
Karunanithi, K. 4877
Karvonen, P. 2131, 7480
Kasahara, K. 8675
Kasha, K. 12633
Kasha, K. J. 2634
Kashem, M. A. 1607
Kashi, Y. 1137
Kashimura, Y. 9575
Kashio, T. 245
Kashour, G. 5876
Kasimor, K. 12903
Kasperczyk, M. 11638
Kaspi, C. I. 3745
Kassim, N. A. 5436
Kasturibai, K. V. 6401
Kasumi, M. 3083
Kaszás, E. 7932
Kata, S. R. 7945
Kataeva, N. V. 1057
Katageri, I. S. 4330, 5493, 5511
Katagiri, F. 913, 2362, 10929, 11750
Katagiri, T. 416
Katahira, S. 8685
Kataoka, T. 13101
Katayama, H. 452
Katayama, T. 3814, 8948
Katayama, T. C. 8023
Katayose, Y. 9198, 10355-10356, 11566
Kathal, R. 8365
Katinakis, P. 521
Katinger, H. 5467
Katiyar, D. S. 6946
Kato, A. 403, 617, 3807, 4884, 6970, 9199, 10932
Kato, H. 417, 419, 2530, 5043, 12566, 12733
Kato, I. 8948
Kato, J. 12967
Kato, K. 2484
Kato, M. 5801, 9484
Kato, S. 2011, 4123
Kato, T. 10481
Kato-Noguchi, H. 5025, 7098
Katoch, P. C. 1567
Katoh, Y. 10474
Katrodia, J. S. 6399
Katsanis, K. 10006
Katsube, T. 3942
Katsuta, J. 6483
Katsuta, M. 1555, 12749
Katt, M. 9014
Katti, R. Y. 11773
Katule, B. K. 4258
Katwate, S. M. 11057
Katz, F. R. 9138
Katz-Downie, D. S. 6564
Katzhammer, M. 12570
Katzir, I. 7556
Kauffman, H. E. 2286
Kauffmann, S. 5469
Kaufman, H. W. 3765
Kaufman, L. S. 10027
Kaufmane, E. 3136
Kaul, B. L. 6257-6258
Kaul, J. 6000
Kaul, M. L. H. 1733, 8257, 11752
Kaul, P. N. 11100
Kaul, V. 13329
Kauppinen, S. 1343
Kauppinen, V. 270, 971, 5905
Kaur, A. 10528
Kaur, J. 2559, 8152
Kaur, L. 572
Kaur, M. 6802
Kaur, N. 7133
Kaur, S. 883, 1855, 13168
Kaur-Sawhney, R. 3643, 11885
Kaur Singh 3207
Kausalya Gangadharan 3978
Kaushal, P. 6005
Kaushal, R. P. 8230
Kaushik, J. C. 12924
Kaushik, R. P. 8020, 12767
Kavanagh, T. 6243
Kavanagh, T. A. 3875, 7540
Kawabata, T. 13327
Kawada, M. 2044
Kawagoe, Y. 8172
Kawahara, R. 1800
Kawahara, T. 8916
Kawai, S. 5088
Kawai, Y. 10738
Kawakami, N. 2485, 12523
Kawakatu, M. 3272
Kawakita, K. 5186, 8278, 8780, 9951
Kawalleck, P. 8740
Kawamoto, T. 4487, 11123, 12760
Kawamura, S. 1301
Kawamura, T. 10906
Kawamura, Y. 119, 7078
Kawanishi, H. 11075
Kawano, K. 13421
Kawano, S. 7394, 12250
Kawano, T. 10636
Kawaoka, A. 4487, 5680, 10927, 11123
Kawasaki, M. L. 13288
Kawasaki, T. 1528, 7078, 8013
Kawase, M. 12749
Kawashima, I. 186

Kawazu, K. 5088
Kawchuk, L. M. 3997
Kay, S. A. 5449, 13224
Kay, V. 12263, 12440
Kaya, N. 4879
Kaynaş, K. 7207
Kaynaş, N. 13157
Kays, S. J. 9487, 11851, 12955
Kazachenko, R. F. 2041
Kazankaya, A. 13048
Kažemėkas, O. 2902
Kazlova, Zh. Ī. 9961
Kazymova, E. M. 11509
Ke, D. 5157
Ke, N. 12125
Ke, S. 6314, 7298
Ke, S. Q. 8432
Ke, X. Y. 12488
Kean, D. 9400
Kearney, C. M. 5478
Kearsey, M. J. 90, 1084
Keatinge, J. D. H. 4771
Kedar, N. 681, 9553, 10683
Keddie, J. S. 6340
Keegstra, K. 12889
Keeler, K. H. 468
Keeler, S. J. 908
Keen, N. T. 1116, 5738
Keen, R. A. 9859-9860
Keenan, M. K. 1776
Kees, H. 12581
Kefeli, V. I. 1164, 1736, 7413
Kegler, H. 3115, 3451
Kehoe, D. M. 5771
Kehr, A. E. 5617
Keiichi, O. 11088
Keijzer, C. J. 7228, 7643, 8709
Keim, P. 6121, 7374
Keimer, B. 13185
Keith, B. 71
Keith, D. J. 6341
Keith, G. 3954
Keith, K. 10019
Keizer, L. C. P. 3010, 4917
Keizer, P. 8543, 11195
Keizer, P. L. C. 11866
Kelkar, N. 2347
Kell, P. 13229
Kellaway, R. C. 11287
Kellebrew, F. 11923
Keller, B. 2471, 2534, 7812, 12490
Keller, E. R. J. 638
Keller, H. 8740
Keller, J. 6286
Keller, J. A. 3503
Keller, K. E. 3982
Keller, W. A. 4034, 13120
Keller-Grein, G. 3931
Kellermann, A. 12570
Kelley, T. G. 4650
Kelley, W. D. 3362
Kellock, L. J. 8308
Kellogg, E. A. 4912
Kelly, A. J. 10054
Kelly, C. A. 2189
Kelly, J. D. 6160, 6162, 11748-11749
Kelly, J. L. 10898
Kelly, K. B. 11674
Kelly, R. T. 2298
Kelman, A. 11837
Kelman, W. M. 1666, 5891
Kelsey, D. F. 733
Kemble, J. M. 3060
Kemmerer, E. C. 8155
Kemp, G. A. 2900
Kemp, J. R. 13347
Kemp, R. H. 7433
Kempen, G. J. M. van 5010
Kemper, E. 3499
Kempin, S. A. 6489
Kempken, F. 7614, 10307
Kenaschuk, E. O. 955, 3332
Kende, H. 671, 1134
Kendrick, R. E. 70, 10013, 10664
Kendrick-Jones, J. 10008
Kene, D. R. 6955
Kenefick, D. G. 8951
Kennard, W. C. 4028, 6250
Kennedy, A. J. 12121
Kennedy, B. W. 4616, 9323-9325
Kennedy, F. J. S. 5422
Kennedy, G. G. 3079, 9555
Kennedy, J. 7581
Kennedy, T. D. 186
Kenrick, J. 1144
Kenton, A. 2376
Kenton, A. Y. 467
Kenward, K. D. 935
Kenworthy, W. J. 1715, 9379, 12828
Keon, J. 5922
Keon, J. P. R. 9407
Keparutienė, I. 3150
Keparutis, V. 3150
Keppel, H. 7246
Keränen, S. 971
Kerbauy, G. B. 8714
Kerckhoffs, D. M. F. Y. 1144
Kerckhoffs, L. H. J. 70, 10664
Kerguélen, M. 7029
Kerlan, M. C. 7324, 13126
Kermicle, J. 328
Kermicle, J. L. 2674
Kern, R. 5449
Kernick, M. D. 10321
Kerrigan, R. W. 1066
Kershaw, W. J. S. 7008
Keršulienė, Z. 2826
Kertész, Z. 2448
Kervella, J. 12432
Keskar, B. G. 4191, 10824
Késmárki, I. 5018
Kesseli, R. 2181, 8313
Kesseli, R. V. 873, 3051, 12981
Kessmann, H. 2075, 2266, 5742, 7403
Kesteren, H. A. van 10681
Kesteren, W. J. P. van 4638
Ketata, H. 7784
Ketchie, D. O. 5399
Ketova, T. A. 4684, 4697
Kettlewell, P. S. 5885, 6237, 13410
Kettmann, R. 1890
Ketzel, A. 9586
Keulemans, J. 7248
Keulen, H. van 8891
Kevan, P. G. 13347
Key, J. L. 6112
Keys, A. J. 3287, 5461, 6488
Keys, R. N. 13282
Khadeeva, N. V. 5462, 7560
Khader, M. A. 2164, 2223, 8334
Khadi, B. M. 4330, 5493
Khairallah, M. 7697
Khairwal, I. S. 1503
Khakhina, L. 4640
Khalid, M. Z. M. 12022
Khalighi, A. 10749
Khalil, I. A. 4700, 5389
Khalil, S. 6154
Khalil, S. A. 7597, 8169
Khalil, S. K. 1920
Khaliq, I. 11346
Khalique, F. 1756
Khan, A. 2693
Khan, A. A. 654
Khan, A. H. 1329, 2518
Khan, A. J. 5872
Khan, A. K. F. 11774
Khan, A. Q. 2000, 2015
Khan, B. R. 4771
Khan, F. M. 1892
Khan, H. 1274, 6155
Khan, H. H. 6398
Khan, I. A. 1756, 5478
Khan, I. M. 5911
Khan, K. 3763, 4837
Khan, M. 1273-1274, 12885
Khan, M. A. 694, 2087, 5918, 13097
Khan, M. G. 411, 6048
Khan, M. M. 6610
Khan, M. R. I. 6107, 11672
Khan, M. Y. 4726
Khan, R. A. 11668
Khan, R. M. Z. 13177
Khan, S. 355, 359, 3615, 4221, 4700, 5935, 6004, 6155, 12639, 12885
Khan, S. H. 7800
Khan, S. I. 5911
Khan, T. Z. 9235
Khan, Z. R. 13416
Khanam, L. A. M. 4902
Khanam, M. 8501
Khangil'din, V. V. 10107
Khanizadeh, S. 737, 744, 9594
Khanna, N. C. 3966
Khanna, P. P. 1883
Khanna, V. K. 4653
Khanna-Chopra, R. 1111, 6768
Khapre, P. R. 3977, 4078, 6213
Kharbanda, P. D. 9673
Khare, A. K. 1367
Khare, D. 1760, 6214
Khare, J. P. 5064
Khare, M. N. 6200
Khare, P. B. 12281
Khasa, P. D. 5555
Khasapetyan, R. T. 10779
Khattak, M. J. 4700
Khatun, A. 958, 4342
Khavkin, E. E. 9099-9100
Khawaja, H. I. T. 8124
Khayat, E. 8526
Khdir, K. 12529
Khehra, A. S. 329, 333, 1390, 1392, 1466, 9149, 9151, 10267
Khehra, G. S. 837
Khehra, M. K. 835, 839
Kheiralla, K. A. 10102, 10127-10128
Kher, H. R. 596
Kher, K. K. 989
Khera, A. S. 3759
Kherrmann, R. G. 4956
Khetarpal, R. K. 4995
Kheyr-Pour, A. 681, 10685
Khokhlov, A. N. 4716, 10115
Khokhlova, T. A. 2583
Khomich, E. A. 10099
Khoreva, E. V. 8881
Khorgade, P. W. 4228, 6428, 9171, 9692
Khoshkam, S. 5328
Khosla, M. K. 2234
Khotpal, R. R. 8502
Khotyleva, L. 2676
Khotyleva, L. V. 7061, 7424, 10099, 11762
Khotylyova, L. 2676
Khristov, A. 2391
Khristov, Kh. 9610
Khristov, M. 7347
Khupatsariya, T. I. 6753
Khurana, A. 10451
Khurana, D. K. 2264
Khurana, S. M. P. 10606
Khurshid Ahmed 4837
Khush, G. S. 2727, 6980, 8002, 8016, 8057, 11169, 11543, 12716
Khush, R. S. 6618
Khushu, C. L. 10563
Khuspe, S. S. 4235
Khvedynich, O. A. 1782, 2965, 8114, 10211
Kiang, A. S. 3875
Kiang, Y. T. 513, 9376
Kiara, J. M. 8534
Kibblewhite, R. P. 8637
Kibite, S. 7835
Kicheva, M. I. 10126
Kidd, G. 24
Kiddle, G. 6352
Kidmose, U. 10220, 12654
Kidou, S. 403
Kidou, S. I. 4884, 6970
Kidwell, K. K. 3912, 6076, 7048, 9282, 11660
Kieber, J. J. 12414
Kiedrowski, S. 1166, 4596, 5787
Kiefer-Meyer, M. C. 2729
Kiehn, F. 850
Kiehn, F. A. 7185
Kielly, G. A. 1658, 9265
Kietzka, J. E. 13253, 13258
Kiew, R. 4242
Kigel, J. 7101, 10509
Kihara, M. 10176-10177
Kihlman, B. A. 3540
Kiihl, R. A. S. 7076
Kijne, J. 11750
Kijne, J. W. 5044
Kik, C. 642, 4033
Kikkert, J. R. 3723
Kikuchi, A. 10486, 12723
Kikuchi, F. 415, 417, 419, 543, 1556, 3830, 11594, 12738
Kikuchi, H. 387, 11563
Kikuchi, J. 119
Kikuchi, M. 8065
Kikuta, S. B. 1324
Kil'chevskiĭ, A. V. 11762
Kilen, T. C. 11732
Kilian, A. 3674, 6834, 11395, 12469
Kilian, W. H. 6762
Killen, T. 3904
Kim, B. C. 7622
Kim, C. H. 6963
Kim, C. S. 6241, 7658
Kim, C. Y. 5360, 6041
Kim, D. 5689, 8335
Kim, D. M. 9579-9580
Kim, D. U. 7622
Kim, H. B. 933
Kim, H. I. 6022, 6046
Kim, H. J. 10335, 11203
Kim, H. S. 2856
Kim, I. S. 6600
Kim, J. 11376-11377
Kim, J. H. 1667, 6220
Kim, J. K. 402, 1820, 11565
Kim, J. M. 7845
Kim, J. W. 10952
Kim, J. Y. 12275
Kim, K. C. 7658
Kim, K. H. 6989, 12736
Kim, K. J. 2398
Kim, L. 5704
Kim, N. S. 7811, 7811
Kim, S. C. 11039
Kim, S. D. 2863
Kim, S. G. 8702
Kim, S. K. 6902, 11515
Kim, S. R. 3279, 7386, 12270
Kim, S. W. 9919
Kim, T. S. 7662, 13268
Kim, W. 12633
Kim, W. C. 13054
Kim, W. H. 12242
Kim, W. K. 7725
Kim, W. T. 10379
Kim, W. Y. 11699
Kim, Y. 2330, 4576
Kim, Y. H. 2863, 3279
Kim, Y. R. 6575
Kim, Y. S. 1934, 7526, 8370, 11068
Kim, Y. W. 6031, 6882, 8595
Kim-Lee, H. 12933
Kimani, P. M. 9515
Kimata, Y. 6140
Kimati, H. 9191
Kimber, D. 4277
Kimber, G. 7741
Kimizuka, F. 8012
Kimnach, M. 7532
Kimura, M. 5797, 5824
Kimura, T. 1763
Kimwaki, J. W. 867
Kinasz, W. 12792
Kincer, D. R. 1459
Kindiger, B. 1471, 3732, 9070, 11516, 12688
Kindl, H. 3298, 7239, 11927
Kindler, S. D. 2803, 6739
Kinet, J. M. 11628
King, F. B. 11476
King, G. 2354
King, G. A. 656, 12984
King, G. J. 10640
King, I. P. 2472, 3601, 3695, 4754, 5941, 6763, 8870

King, J. 6606, 7656, 8734, 10018
King, J. N. 2110
King, J. W. 8074
King, L. M. 4912
King, R. W. 12525
King, S. B. 6961, 9189-9190
King, S. R. 13400
Kini, A. V. 1964, 12060
Kinney, A. J. 1154, 13122
Kinoshita, T. 1551, 4278, 6977-6978, 8737, 9705-9707
Kinsella, J. E. 906
Kinsey, J. G. 4844
Kinslow, C. J. 12138
Kintzios, S. 10191
Kipe-Nolt, J. A. 8181
Kipnis, L. S. 2378
Kippers, A. 10010
Kiramat Khan 4837
Kirby, A. 11287
Kirby, E. G. 854, 6367
Kirby, E. J. M. 5844
Kircher, S. 11109
Kirchner, G. 12138
Kiribuchi, C. 8956
Kirichenko, A. V. 10446
Kirichenko, E. B. 5675, 10213
Kirichenko, I. G. 2023
Kirihara, T. 8006, 10353
Kirimer, N. 9935
Kiriswa, F. K. L. 4661
Kirk, C. A. 11682
Kirk, G. J. D. 10382
Kirk, J. T. O. 3204
Kirk, S. H. 12322
Kirk, W. D. J. 1205
Kirkbride, J. H. 6431
Kirkbride, J. H., Jr. 2270
Kirkham, M. B. 355, 359
Kirkpatrick, M. 7679
Kirkwood, R. C. 7120, 12703
Kirleis, A. W. 358, 3753
Kirschman, J. 5958
Kirti, P. B. 8476, 10536, 13127
Kīrychėnka, A. V. 10446
Kisaka, H. 8283
Kiseleva, O. N. 6760
Kishaba, A. N. 1858
Kishi, F. 9868
Kishi, T. 8427, 9597
Kishimoto, M. 12956
Kishimoto, N. 3808, 3810, 6019, 12721, 12724
Kishinami, I. 10177
Kishitani, S. 5148
Kishor, P. B. K. 162, 3253, 6042
Kishore, D. K. 4116
Kishore, P. 379, 9192, 11519
Kiss, E. 822
Kiss, G. B. 7051
Kiss, G. K. 2144, 13309
Kiss, P. 7051
Kiss, T. 5777
Kissel, U. 2872
Kissimon, J. 11348
Kistner, M. 9466
Kita, F. 8128
Kitabayashi, H. 3866
Kitagawa, J. 11846
Kitagawa, S. 3942
Kitamura, K. 542-543, 593, 10486
Kitamura, Y. 2218, 9337
Kitauchi, F. 9719
Kitaya, T. 7751
Kitch, L. W. 9436
Kitchen, S. G. 12797
Kitchlu, S. 4485
Kitiki, A. 6208
Kito, M. 3942
Kittlitz, E. von 11735, 12869
Kittrell, B. U. 9747
Kiyosue, T. 11205
Kjær, B. 2430
Kjærulff, S. 2430, 2603
Kjeldsen, G. 10220, 12654
Klakhaeng, K. 6985
Klann, E. 677
Klann, E. M. 4069
Klap, J. C. 3531
Klapper, D. G. 5956
Klashorst, E. van der 6249
Klassou, C. 7407, 8575
Klaudiny, J. 5453
Klęczek, C. 11644
Kleczkowski, L. A. 4590, 6834
Klee, H. J. 673, 10663
Kleese, R. A. 12348, 13413
Kleijer, G. 2289-2290, 9954
Klein, C. M. J. de 5174
Klein, L. 7054, 12815
Klein, M. 12405
Klein, P. G. 11377
Klein, R. N. 7821
Klein, R. R. 3050
Klein, T. M. 5957, 12394, 13374
Kleiner, W. C. 730
Kleinhofs, A. 1346, 3674, 3681, 4770, 6834, 7838, 7840, 11395, 12469
Kleinschmit, J. 2264, 4372, 13268
Klekowski, E. J., Jr. 6694
Klepetka, B. 1117, 2262
Klessig, D. F. 3309, 4306, 6503
Kliebenstein, D. 8557, 12125
Klimashevskaya, N. F. 4695
Klimaszewska, K. 6554-6555, 12224
Klimenko, Z. K. 8662
Klimyuk, V. 7231
Klinac, D. J. 10735
Kline, W. 7190
Kling, C. I. 2449
Klingaman, G. L. 8404
Klinger, T. 628
Klingkong, S. 8514
Klinkhamer, P. G. L. 4434, 4637, 12449
Klockiewicz-Kamińska, E. 11368
Klonus, D. 10568
Klopfenstein, N. B. 2117
Kloppers, F. J. 8932, 8934
Kloppstech, K. 271, 10391
Klose, A. 8493
Klösgen, R. B. 7202
Kloska, S. 1152
Kloske, E. 7655
Kloth, R. H. 2093
Klöti, A. 2456, 10378
Klotz, K. 1831
Klucas, R. V. 8146
Kludze, H. K. 12752
Klusák, H. 4759
Kmiecik, W. 13063-13064
Knaap, J. A. van der 8564
Knaap, J. C. M. van der 3404
Knabe, D. A. 1449
Knack, G. 10391
Knackstedt, M. A. 11343
Knaflewski, M. 655, 9530
Knapp, E. 5467, 5982
Knapp, E. E. 6077-6078, 8101
Knapp, S. 10655
Knapp, S. J. 4770, 6433, 7048, 12210
Knauf, V. C. 3187
Knauft, D. A. 4263, 7364
Kneale, G. G. 12320
Knecht, J. A. de 6578, 9145
Kneen, B. 4522
Kneshke, I. 3032-3033
Knežević, D. 2508
Knibb, W. 6107
Knight, A. E. 10008
Knight, C. W. 12598
Knight, J. S. 7387
Knight, M. E. 13228
Knight, M. R. 1143, 8175
Knight, R. J. 13103
Knight, R. J., Jr. 5324, 13102
Knight, T. J. 6172
Knight, V. H. 5264
Knights, E. J. 3974, 8136, 8209
Knights, S. E. 2489
Knipple, D. C. 5481
Knobel, G. J. 6762
Knoetzel, J. 2604
Knoke, J. K. 9159
Knoop, V. 9980
Knopf, E. 12530
Knott, D. R. 255, 3660, 7806, 8940, 12481, 12573, 12583
Knott, S. A. 12427
Knowe, S. A. 13271
Knowler, J. T. 608
Knowles, J. K. C. 971
Knowles, P. 2043
Knowles, S. 10742
Knox, B. 1144
Knox, R. B. 1203, 1627, 2162, 8851-8852, 9845, 11215
Knox, R. E. 180, 8877
Knudsen, H. D. 7429
Knudsen, J. T. 12301
Knudsen, J. Y. 10464
Knudsen, S. 2615, 10175
Knüpffer, H. 11155, 12340, 12343, 12586, 13408, 13419
Knutsson, T. 7841
Knyaz'kov, I. E. 5668
Ko, H. L. 9699, 12472
Ko, J. A. 11068
Ko, K. 9660
Ko, K. C. 10729, 13054
Ko, S. C. 6575
Ko, W. H. 2772, 12010
Ko, Y. J. 2356
Ko, Z. W. 9660
Koba, T. 427, 1309, 12470, 12501
Kobak, C. 13076
Kobayashi, A. 5088, 9218, 12748
Kobayashi, E. 1528
Kobayashi, M. 7067
Kobayashi, N. 446, 9240
Kobayashi, O. 4077
Kobayashi, R. S. 4005-4006
Kobayashi, S. 795, 8737, 9626, 10635, 10805, 10807, 13096
Kobayashi, T. 7559
Koç, N. K. 5320-5321
Koch, M. F. 6997
Koch, P. S. 1866
Koch, S. D. 7030
Kochert, G. 3802, 4147, 5401, 12716, 12722
Kochert, G. D. 13332
Kochetygova, M. G. 4645
Kochian, L. V. 236, 2515, 3523, 3771
Kochko, A. de 12744
Kochubei, S. M. 10276
Kock, P. 3520
Kocsy, G. 3643
Koczowska, I. 2658
Kodama, H. 13232
Kodama, M. 3073, 3118
Kodela, P. G. 4355
Kodja, H. 13384
Koebner, R. 11282
Koebner, R. M. D. 2472, 3888, 11357
Koech, J. 6353
Koechlin, J. 1876
Koehler, P. E. 6420, 11851
Koehn, R. K. 10035
Koehorst, H. J. J. 13359
Koekemoer, P. J. J. 12011
Koella, J. C. 1192
Koen, B. 4807
Koenig, J. 6857, 11362
Koes, R. 3413
Koes, R. E. 4439, 13368
Koester, R. P. 5969
Koevoets, P. L. M. 6578
Koeyer, D. L. de 3688
Kof, E. M. 1736
Kofer, W. 10935
Koffmann, W. 752
Kofoid, K. D. 9181, 10314
Kofuji, R. 8726
Koga, H. 2691
Koga-Ban, Y. 8004, 11554, 11563
Koganezawa, H. 1611-1613, 3859, 3861, 8053
Koh, H. J. 6989, 11598, 12736
Kohchi, T. 5769
Kohel, R. J. 4337, 9744
Kohli, U. K. 2906
Kohli, Y. 1066
Kohlstock, N. 12206, 13297
Köhm, B. 6243
Kohmoto, K. 3073, 3118
Koike, K. 11563
Koizumi, M. 7660
Koizumi, N. 3805
Kojima, K. 7479
Kojimoto, A. 9484
Kok, E. J. 2348
Kok, J. M. 7217
Kok, W. 5012
Kokkini, S. 2236-2237
Kokko, M. J. 11074
Kokubun, M. 11729
Kolb, F. L. 3951, 8893, 8941
Kolchinsky, A. 12832
Kolding, M. F. 8878, 11300
Kollár, Á. 10953
Kölle, K. 12416
Kölling, A. 4588
Kollipara, K. P. 3943, 12837, 12914
Kollmorgen, J. F. 2574
Kollöffel, C. 4918
Kolmer, J. A. 2550, 6797, 10144, 10146
Kolník, B. 2478
Kolomiets, L. A. 1256
Kolomiets, T. M. 12770
Kołosov, V. L. 10206
Kolster, P. 7778, 12546
Koltunow, A. M. 3552
Komaki, K. 623
Komamine, A. 1800, 9911, 12422
Komari, T. 11557
Komarnitskiĭ, I. K. 923
Komarnitsky, I. K. 923
Komarova, Ė. N. 5649
Komatsu, S. 281, 3830, 9333
Komatsuda, T. 12830, 12864
Kombrink, E. 5838, 6229
Komeda, Y. 3517, 7640, 8147, 8813, 10000
Komeichi, M. 9485
Komiac, M. 3109
Komine, Y. 9563
Komiya, T. 3306
Komori, S. 4123
Konarev, A. V. 7754
Konarev, V. G. 7754, 8881
Koncz, C. 912, 5757
Kondawar, S. R. 9223
Kondo, K. 4384, 12272
Kondo, N. 9729, 10012
Kondo, S. 2044
Kondorosi, Á. 7050-7051, 8100, 12813
Kondorosi, É. 7050-7051, 12813
Kondra, Z. P. 1932
Kondrashov, A. S. 5793
Kong, D. 11385
Kong, L. G. 5861
Kong, L. R. 170, 191
Kong, Q. D. 7015
Kong, X. D. 917
Kongnakhon, C. 11715
Konieczny, A. 7616
Konieczny, G. 12836, 12848-12849, 12858
Konieczny, R. 11673
Koning, G. J. de 12335
Koning, J. R. A. de 5117, 12946
Koninkx, J. F. J. G. 5012-5013
Konishi, K. 7223
Konishi, T. 1354, 1359, 11754, 12627
Konnert, M. 8643
Konno, N. 5148
Kononowicz, A. K. 4861, 9547
Kononowicz, H. 12657
Konoplyova, A. A. 3873
Konovalov, Yu. B. 2, 4668, 4683, 6753
Konstantinov, Yu. M. 7896
Kontzog, H. G. 3345

Konwar, B. K. 6458-6459
Konys, E. 9530
Konzak, C. F. 264, 3460, 5933, 12512
Koodalingam, K. 9230
Kooman-Gersmann, M. 3804
Koontz, J. A. 8573
Koop, H. U. 3680
Koopowitz, H. 8724, 11080
Koornneef, M. 70, 81, 4058-4059, 5090, 5174, 5176, 5191, 7643, 10013, 10024, 12995
Koot-Gronsveld, E. A. M. 11760
Kooter, J. M. 42, 1016
Kootstra, A. 9578
Kopec, J. 10794
Kopp, M. 5469
Koppar, N. M. 11901
Koppel, M. 8266
Kopriva, S. 9452, 9865
Koptik, I. K. 1260
Korać, M. 9643
Koranne, K. D. 5059, 12829
Korányi, P. 7445
Korban, S. S. 738, 3120
Korchins'kiĭ, A. A. 12313
Korde, V. V. 8791
Kores, P. J. 132
Korfhage, U. 11110
Korić, B. 6781
Korinets, V. 11138, 11267
Kormuťák, A. 5581, 13319
Kornegay, J. 3960
Kornegay, J. L. 2899
Kornienko, A. V. 3271, 10901
Korobov, R. M. 1427
Korol', A. B. 2672, 10227
Korol, W. 12049
Koroleva, S. V. 5150
Korošec-Koruza, Z. 1907
Korostash, M. A. 2059
Korpás, O. 772
Korpelainen, H. 5165
Korpradittskul, V. 8514
Koruza, B. 779, 10790
Korva, J. 12552
Korzeniewska, A. 4110, 11932
Korzun, V. N. 4795, 10207, 11406
Kosakovskaya, I. V. 4531
Koshino, S. 12593
Koshiya, D. J. 262
Koshkin, E. I. 4732
Koshkin, V. A. 161, 11283
Koshy, E. P. 6385
Koshy Abraham 5200
Koski, V. 6531
Košmelj, K. 10830
Kosmidu, E. 5800
Košner, J. 2491-2492
Kössel, H. 309, 10231, 12468
Kossmann, J. 6232, 11190
Kossou, D. K. 11507
Kost, S. 8207
Kosterin, O. E. 1735
Kostermans, A. J. G. H. 11133
Kostina, E. D. 161, 11283
Kostka, S. J. 10898
Kostkanová, E. 4671, 4711, 7828, 10117, 11339
Kostřica, P. 5093
Kostrikin, I. A. 10784
Kostyshin, S. S. 11961
Kostyuchenko, V. I. 6875
Kota, R. S. 6813
Kotch, G. P. 9458
Kotecki, A. 5003
Kotemiak, V. V. 9045
Kothari, S. L. 8029
Kotobuki, K. 739, 4179, 9581-9582
Kou, H. Y. 11698
Kouame, B. 6366
Kouchi, H. 5032-5033, 9720, 12155
Koukolíková-Nicola, Z. 1148
Koul, A. K. 962, 1040, 4474
Koul, K. K. 3871
Koundal, K. R. 6202
Kousalya Gangadharan 12099
Kousik, C. S. 10491
Koutou, A. 852, 6366
Koutu, G. K. 3976
Kováč, J. 6313
Kováč, K. 4718
Kovačević, D. 324
Kováčik, A. 7334
Kováčiková, E. 2536, 3119
Kovács, G. 337, 1144, 1310, 1465, 3628, 4850
Kovács, M. 337
Kovacs, M. I. P. 1312
Kovács-Benkó, Z. 3273
Kovalenko, E. D. 12770
Kovaleva, L. 3414
Kovaleva, L. V. 5649
Kovbasyuk, E. V. 2041
Kovtun, E. V. 2059
Kovtun, Y. V. 923
Kowalczyk, K. 8901
Kowalska, A. 9504
Kowalska, C. 2916
Kowalska, M. 12544, 12590
Kowalski, S. P. 1799
Kowles, R. V. 9059, 9067
Kowyama, Y. 11879, 13002
Koyano, T. 12435
Kozik, A. 558
Kozik, A. V. 8184
Kozlechkov, G. A. 2477
Kozlova, Zh. I. 9961
Kozłowska-Ptaszyńska, Z. 11387-11388
Kozłowski, S. 11633, 11637, 11642, 12804
Kozono, T. 8405-8406
Kozub, G. C. 2900, 7159, 7808, 7849, 10595
Kozubek, A. 12440
Kozubek, E. 3926, 5378
Kozuch, M. E. 3725
Kozyreva, O. G. 13019
Kozyrevich, T. P. 7380
Kraak, H. L. 700
Kraemer, M. E. 9378
Kraepiel, Y. 7396
Kraft, J. M. 6197, 8140, 9405
Krahl, K. H. 13332
Krahmer, R. L. 6557-6558, 8654, 11032
Kraic, J. 4753
Kral, G. 7858
Kralj, D. 6615
Kraljević-Balalić, M. 4699, 4701
Krall, J. P. 10937
Kramer, C. 2705
Kramer, D. M. 7646
Kramer, K. U. 12306
Kraml, M. 10019, 12094
Krammes, C. A. 6925
Kranz, E. 1417, 2680, 2686, 7884
Kranz, J. 6852, 10192, 12683
Krarup, C. 10513
Krasaechai, A. 11079
Krasheninnikova, L. V. 9734
Krasichkova, G. V. 5496
Krasil'nikov, E. A. 7377
Krasnenkov, S. V. 4857
Krasnikov, V. G. 3797
Kratochvil, J. 8902, 11318
Kratochvílová, D. 5093
Kraus, E. 4918
Krause, A. 10549
Krause, G. F. 7027, 9256
Krause, G. H. 9951
Krause, K. P. 6256
Krauss, S. L. 9847
Krausz, J. P. 3765
Kräuter, R. 3217
Krautzer, B. 12778
Kravchenko, V. A. 1833
Kravets, E. A. 10211
Kravtsov, Yu. F. 2023
Krebbers, E. 7621, 8802
Krebs, H. 9674
Krech, A. B. 12658
Krechting, C. F. 6785, 7778
Krechting, K. F. 12546
Kreiberg, J. D. 604
Kreike, C. M. 5117, 12946
Kreike, M. M. 13368
Kreimer, G. 312
Kreis, M. 4580, 7711, 8807, 11201
Kremer, A. 6692, 7437, 8592, 8634, 12428
Kremer, D. F. 8555
Krens, F. A. 6065, 7379
Krenz, M. 11109
Kreps, J. A. 7654
Kresovich, S. 9938, 11865, 12970
Kress, W. J. 2398, 2400-2401
Kretsch, T. 5760
Kretzschmar, U. 4379
Kreuzaler, F. 3996
Kreuzer, H. 898
Krewer, G. 13066
Krieg, D. R. 12918
Krigstin, S. G. 11000
Krikorian, A. D. 1912
Krilova, N. P. 12779
Krinkels, M. 13330
Krishan Pal 8973
Krishanpal 10846
Krishna, G. V. S. R. 7138
Krishna Jha 7959
Krishnadoss, D. 5998
Krishnakumar, J. C. 577, 8213
Krishnakumar, N. 6391
Krishnamoorthy, B. 9926
Krishnamoorthy, S. V. 6451
Krishnamurthy, A. H. 1542
Krishnamurthy, K. V. 569
Krishnamurthy, L. 11772
Krishnamurthy, R. A. 1534
Krishnan, H. B. 8010
Krishnan, S. 6336
Krishnapal 1939
Krishnappa, K. S. 6234
Krishnasamy, S. 5136
Krisman, C. R. 4834
Krištín, J. 5634
Kristjansdottir, I. S. 4004
Kristkova, E. 1861
Kristof, Z. 1144
Křístová, E. 3097
Křivánek, V. 769, 771, 773
Krivitzky, M. 8807
Krivko, V. G. 3364-3365
Krivoklyakin, N. M. 5432
Krivov, N. V. 9093-9094
Kriz, A. L. 11453
Křižková, L. 5453
Krogstrup, P. 2145, 2147, 9788, 11028
Krol, A. R. van der 3416-3417
Krol, A. van der 5759
Kron, K. A. 2398, 2403, 5616
Kronenberger, J. 7607
Kronstad, W. E. 256, 3630, 8878, 11300, 11328-11329
Kroon, B. A. M. 3076
Kroon, J. 3413
Kross, H. 2858
Kroupa, F. 9943
Krpeš, C. 3164
Krueger, A. R. 1785
Krueger, W. H. 5399
Kruft, V. 9453
Kruger, B. M. 8608-8609
Krüger, G. H. J. 934, 8560, 9728, 10938, 13231
Krüger, H. 934, 13231
Krüger, J. 3117
Krugman, T. 6815
Kruleva, M. 9068, 9075
Kruleva, M. M. 7914
Krupinska, K. 273
Krupinsky, J. M. 3348
Kruse, A. 11821
Kruse, E. 271
Kruse, J. 7676
Kryczyński, S. 614
Krylov, O. A. 10268
Krysiński, R. 13188
Kryszak, A. 11639
Kryuchkov, A. V. 5150, 5178
Krzeczkowska, A. 4792
Krzesinska, E. Z. 4138
K"rzhin, Kh. 6799, 7815
Krzymuski, J. 2421, 12467
Krzysztofik, B. 11833
Krzyzek, R. A. 4819
Kuai, J. M. 9203, 10373
Kuang, D. R. 7402
Kuang, Z. S. 13105
Kubara-Szpunar, Ł. 10133
Kubicka, H. 294
Kubicki, A. 12471
Kubiczek, R. P. 1385
Kübler, E. 295
Kubo, A. 9729, 10012
Kubo, T. 4278, 9707
Kuboki, Y. 11558
Kubota, F. 8023
Kubota, N. 1226-1227, 5296
Kučera, L. 2469, 4690
Kučera, V. 3043, 5348
Kucharska, E. 8739
Kucherenko, L. A. 1575, 11595
Küchler, L. 7474
Kuchuk, N. V. 8114
Kück, U. 10059, 11135
Kuczyński, A. 5263, 5268
Kůdela, V. 3119
Kudla, J. 10231
Kudła, M. 5368
Kudlip Singh 9414
Kudo, G. 8660
Kudo, K. 9575
Kudou, S. 10486
Kudryavtsev, A. M. 6759
Kudryavtseva, N. V. 7377
Kües, U. 3437, 4500, 12305
Kuguk, N. S. 2076
Kuhad, M. S. 4223
Kuhlemeier, C. 2229, 9722, 10666, 12143
Kuhlmann, H. 12038
Kühn, F. 6717
Kuhn, R. M. 65
Kühn, S. 3729
Kuhner, M. K. 8859
Kuhns, M. R. 8605
Kuijpers, A. M. 9933
Kuip, H. van der 8991
Kuiper, H. A. 2348
Kuiper, P. J. C. 721-722
Kuipers, A. G. J. 6233
Kuipers, A. J. 2969
Kukade, N. N. 8036
Kukadia, M. U. 5995, 6429
Kukhang, T. D. 8536
Kukina, I. M. 5212
Kukreja, A. K. 12968
Kukułka, I. 11633, 11637
Kula, A. 4930
Kulaeva, O. N. 4956, 5212
Kuliev, K. M. 2154
Kulik, L. A. 2412
Kulikova, O. A. 5056
Kulkarni, A. S. 8502
Kulkarni, D. N. 1852
Kulkarni, M. S. 3249
Kulkarni, R. R. 10869
Kulkarni, R. S. 5082
Kulkarni, U. G. 6292
Kulkarni, V. N. 7365
Kullik, C. 9854
Kulshreshtha, V. B. 1392
Kumagi, T. 440
Kumar, A. 2018, 2923, 3485, 4312, 5111, 5564, 5677, 7529, 9118, 10189, 11825, 12944
Kumar, A. M. 6676
Kumar, B. P. 7237
Kumar, C. 4327, 5502, 5508
Kumar, C. P. S. 1557
Kumar, D. 5375, 5382, 5406, 5706
Kumar, D. P. 9654
Kumar, H. 2698-2699, 2702-2703
Kumar, H. D. 13414
Kumar, I. 6980
Kumar, J. 253, 1334, 7813, 10542
Kumar, K. 9404

Kumar, K. A. 6957
Kumar, K. P. 13383
Kumar, L. 8231, 9417
Kumar, M. 107, 9143, 10247
Kumar, N. 829, 2164, 3432, 7504, 9804
Kumar, N. K. K. 3077
Kumar, P. 1951, 4963
Kumar, P. A. 5869
Kumar, P. P. 8619
Kumar, P. S. 11572
Kumar, R. 311, 9416, 10524, 10623, 10970, 12891
Kumar, R. R. 13194
Kumar, S. 871, 1961, 6270, 6333, 8515, 10606, 12913
Kumar, V. 4030, 6344, 11706, 11726
Kumar, V. D. 10536
Kumaran, K. 6387
Kumaran, P. M. 6372
Kumaravadivel, N. 5993
Kumari, A. K. 9177
Kumari, N. 10847
Kumari, S. R. 12695
Kumashiro, T. 11557
Kump, B. 1126, 3865, 9974
Kunaeva, R. M. 5669
Kunanuvatchaidach, R. 6983
Kundu, C. 1553, 3847
Kundu, D. K. 8035
Kundu, S. 2014, 10835
Kundu, T. K. 1772
Kunert, K. 6481
Kunert, K. J. 11187
Kung, S. D. 1699, 12154
Kunihiro, Y. 387
Kunik, T. 11895
Kunimitsu, T. 4349
Kunitake, H. 659
Kunkel, B. N. 1168
Kuno, H. 2484
Kunpatcharanurak, W. 9959
Kunst, L. 7652
Kuntz, M. 10692
Kunz, C. 5465, 13002
Kunze, R. 3729, 5964, 11443
Künzel, G. 2592
Künzler, J. 12570
Kuo, C. G. 6253
Kuo, H. E. 12831
Kuo, T. M. 11463
Kuo, W. S. 10380
Kuo, Y. J. 6073
Kurata, N. 7693, 8006, 9198, 10353, 10355-10356, 11558, 11566-11567
Kurath, G. 5478
Kurauchi, N. 250
Kureczka, J. E. 5862
Kureková, Z. 11345
Kuriachen, P. M. 6608
Kurihara, A. 739, 8396, 8426-8427, 9582, 9597
Kurihara, K. 13040
Kurinobu, S. 9822, 9830, 9833
Kurita, S. 13379
Kurjin, H. 6799
Kuroda, M. 313
Kuroda, S. 4024, 5139
Kuroiwa, T. 7394, 12232, 12250
Kuroli, G. 3273
Kurosawa, K. 10914
Kurtén, U. 971, 5905
Kuruvilla, K. M. 6608
Kuruvinashetti, M. S. 6935
Kurzyp, T. 4696
Kush, A. 1015
Kushairi, A. 4239, 13148
Kushnak, G. D. 11371
Kushwaha, A. K. 829
Kushwaha, K. P. S. 5015
Kushwaha, K. S. 11506
Kusiak, C. 8568
Kuşman, N. 1794
Kusnetsov, V. V. 5212
Küster, H. 4997-4998
Kutas, A. M. 7285, 10770, 11991
Kutas, E. N. 7285, 10770, 11991
Kutchan, T. M. 12286
Kutrzeba, M. 455, 11647
Kutsunai, S. Y. 5326
Kutty, M. C. N. 6392
Kuwabara, T. 12565
Kuwano, K. 5685
Kuykendall, L. D. 9362
Kuz'menko, A. I. 4665
Kuz'micheva, N. A. 7449, 12192
Kuz'mīchova, N. A. 7449, 12192
Kuz'min, E. V. 9027, 12156
Kuz'mina, T. A. 5675
Kuznetsov, E. D. 3611
Kuznetsov, V. V. 4956, 5212
Kuznetsova, L. 10949
Kvach, G. I. 11509
Kwack, S. N. 10708
Kwak, J. M. 1934, 7658
Kwak, M. M. 13356
Kwak, S. S. 9919
Kwak, Y. H. 12242
Kwart, M. 3497
Kweon, S. J. 4757
Kwesiga, F. 12195
Kwesiga, F. R. 12195
Kweta, G. 600
Kwiatkowski, S. 2211
Kwok, S. F. 76, 10021
Kwon, H. B. 10011
Kwon, O. Y. 1934
Kwon, Y. C. 4757, 5360
Kyle, M. 11902
Kyle, M. M. 8362, 13031, 13421
Kyotani, H. 8405-8406, 8413
Kyozuka, J. 394, 447, 6021, 10233, 12674
Kyriakopoulou, P. 8760
Kyseláková, M. 10794
Kyte, T. R. 3461
La Cognata, U. 10566
La Croix, I. F. 6593-6594
La Rosa, G. 13108
La Serna Ramos, I. E. 9921
Labana, K. S. 1948
Labarère, J. 1067, 2242, 4492-4493, 4495-4496, 4498, 4502, 7561, 13403
Labat, J. N. 7069
Labate, C. 6493
Labavitch, J. M. 1836, 12996
Labbé, H. 13202
Laberge, S. 477, 8104, 9288
Labergère, M. 7266
Labrouhe, D. T. de 10866
Laca-Buendía, J. P. 11069
Lacasa, A. 8359, 9880, 10761
Lacaze, P. 7697
LaCelle, M. G. 12172
Lachenaud, P. 4285
Lachmann, M. 1171
Lack, A. J. 1000
Lacroix, C. 2174
Lacroute, F. 10007
Ladd, P. G. 6703
Ladeinde, T. A. O. 8026
Ladiges, P. Y. 2113, 8591
Ladizinsky, G. 560-561, 3971, 6198, 7123
Lados, M. 557
Ladygin, V. G. 7413
Lafever, H. N. 1267-1270, 5851
Laffort, B. 5794
Laffray, D. 7488
Lafiandra, D. 1318, 7777, 7825, 8883
Lafitte, C. 2310
Lafitte, H. R. 9109, 11493
Lafleuriel, J. 11210
Lafontaine, J. G. 497
Lagarda Murrieta, A. 13117
Laghetti, G. 3980, 7691, 11155
Laghi, M. 5238
Lagrange, T. 4038
Lagrimini, L. M. 1831
Lagu, M. D. 11574
Lagudah, E. S. 2419, 6814, 7793, 7824, 7831
Lahav, E. 1919, 9630, 12019
Lahlou, A. 7052
LaHood, E. S. 7374
Lai, C. 9684
Lai, K. L. 11593, 12142
Lai, L. Y. 3100
Lai, L. Z. 11581
Lai, Y. K. 920, 4297
Laiche, A. J., Jr. 3371
Laimer da Câmara Machado, M. 5467, 13058
Lainé, E. 10993
Laing, D. R. 11166
Laiq-ur-Rahman 3426
Lairungreang, C. 3990
Laitat, E. 7585
Lake, A. W. H. 11655-11656
Lake, J. K. 1436, 1441, 9158
Lakha, N. M. 4238
Lakhani, J. P. 4755, 10168
Lakhani, S. 3966
Lakhanov, A. P. 7110, 11756
Lakitan, B. 1727
Lakshmanan, K. K. 1979, 9775
Lakshmanan, P. 7538
Lakshmikumaran, A. 1144
Lakshmikumaran, M. 3194, 7371, 8471, 9694
Lakshmipathi, B. H. 6226
Lal, A. 10937
Lal, C. B. 4317, 4341
Lal, G. 11876
Lal, H. 11942
Lal, M. 7852
Lal, N. 888, 1047
Lal, R. J. 892
Lal, R. K. 1041-1042, 12288
Lal, S. 1689, 9154
Lal, S. D. 6187, 6587
Lal, T. 1856, 5204, 7140
Lalbachan, V. 1522
Lalitha, S. 2164, 7504
Lallan Singh 8298
Lallan Yadav 1739
Laloue, M. 10005, 13222
Lam, E. 8806
Lamade, E. 12069
Lamaison, J. L. 4479
Lamattina, L. 5857
Lamb, A. 9901
Lamb, C. J. 1165, 2350, 9551, 11608
Lamb, E. M. 7970
Lamb, M. J. 1171
Lamb, N. 12808
Lamb, R. J. 3212, 7330-7332
Lambe, W. J. 11341
Lambers, H. 4918
Lambert, C. 12231
Lambert, J. D. H. 351, 10304
Lambert, M. G. 1661, 7055
Lambert, N. 556
Lambert, R. J. 3705
Lambeth, C. C. 7483, 8757, 9809
Lambourne, J. W. 4967
Lamboy, W. F. 9938, 12970
Lamikanra, O. 9598
Lamkey, K. R. 2368, 9052
Lammeren, A. A. M. van 8475
Lammerink, J. P. 9469
Lamont, B. B. 2168, 9783
Lamothe, M. de N. de 6369
Lamprecht, S. C. 10680
Lamseejan, S. 9351, 10478, 11715
Lamy, F. 1505
Lan, J. 12542
Lan, X. J. 2650
Lan, X. Y. 1702
Lanahan, M. B. 155, 3671, 10663, 11375
Lanaud, C. 2048, 5311-5312, 7432, 8512, 8537, 9714, 9763, 12694
Lanave, C. 8854
Lance, G. N. 373
Lancelin, D. 9532
Lançon, J. 6509, 7407, 8575
Landau-Ellis, D. 10468
Landbeck, M. 10286
Lande, R. 4627
Landell, M. G. de A. 4272-4273
Landgren, M. 5358, 7325-7326
Landi, P. 1396, 9128, 12686-12687
Landolt, E. 130
Landoni, M. 11454
Landrum, L. R. 127
Landry, B. S. 2336, 4557, 12053, 13132
Landsmann, J. 12139, 12263
Lane, B. G. 186, 8950
Lane, J. A. 8222
Lane, M. D. 7541-7543, 9915
Lane, S. D. 5814
Lane, W. S. 10500
Lanetskiĭ, V. P. 10610
Lang, A. 4303, 5298
Lang, K. J. 8645
Láng, L. 1257, 4687
Lang, L. J. 8169
Lang, M. 12148
Lang, N. S. 10416-10417
Lång, V. 6678, 10029
Langdale, J. A. 7915, 12672-12673
Langdon, P. W. 6321
Lange, C. F. M. de 8168
Lange, F. 2501
Lange, K. 7666, 8824
Lange, P. de 1016, 5759
Lange, W. 840, 10913
Lange, W. J. de 13261
Langebartels, C. 6495
Langebartels, R. 3298
Langer, A. 4474
Länger, H. 3539
Länger, R. 5644, 11072
Langerfeld, E. 2988, 8269
Langheinrich, U. 6541
Langille, A. R. 8254
Langner, C. A. 3791
Langridge, P. 2424, 2426, 6871, 7748
Langridge, U. 6871
Langridge, W. H. R. 915, 927
Lanham, P. G. 13162
Lankes, C. 10767
Lankhorst, R. K. 12995
Lanneau, M. 5474
Lanning, S. P. 1317, 11370
Lannoye, R. 11356
Lansac, A. R. 12691
Lanteri, S. 700, 702, 2129
Lanz, T. 8733
Lanzini, S. 6918
Laouar, L. 958
Lapidot, M. 4308, 13000
Lapierre, H. 2697
Lapikova, V. P. 12770
Lapitan, N. L. V. 1348, 2475, 6813
Lapointe, G. 10407
Lapp, M. S. 983
Lappi, D. A. 4472
Lapsley, K. 737
Laptev, Yu. P. 6231
Lapteva, M. N. 8881
Lapteva, O. K. 6709
Laquel, P. 10082
Lara, F. M. 6951
Larbi, A. 4967
Lareyre, J. J. 4469
Larina, S. N. 6901, 9147
Lark, E. 5781
Lark, K. G. 2853, 2858-2859, 11713
Larkin, J. C. 3510, 10240, 12419
Larkin, P. J. 1293, 3536, 3889, 4942, 8063
Larkins, B. A. 1447, 3566, 3753-3754, 5692, 11440, 12474
Laroche, A. 12498, 12633
Larondelle, Y. 10655
Larrahondo A., J. E. 2016
Larsen, A. 11289

Larsen, K. 2825, 4529, 6612, 9762, 10464
Larsen, S. S. 9762
Larson, R. A. 8659
Larson, R. L. 3915
Larson, S. R. 12689
Larsson, C. T. 8640
Larsson, S. 976-977, 5381, 12556
LaRue, T. A. 7116, 11761
Laryea, K. B. 7980
Lasa, J. M. 115, 4104
Lascoux, D. M. 8634
Laser, B. 10059
Lashermes, P. 904, 7606, 10918
Laskey, J. G. 8148
Laskowska, D. 13216
Lassalle-Astis, D. 5282
Last, D. I. 10060
Last, R. L. 58, 71
Lastrella, C. N. 5170
László, P. 8383
László-Bencsik, Á. 6605
Latché, A. 4107
Lateef, S. S. 8142
Latha, A. K. B. 9635
Latha, P. G. 7528
Latham, A. J. 5338
Lather, B. P. S. 10970
Laties, G. G. 3180, 5326
Latif, M. 11881
Latta, R. 1200
Latter, B. D. H. 7746-7747
Latterich, M. 9983
Lattová, J. 13026
Latunde-Dada, G. O. 9430
Latypov, S. A. 676
Lau, T. C. 6287
Laubach, E. 2576
Laublin, G. 1144, 2203, 12937
Lauckner, F. B. 12121
Laudański, Z. 12467
Laude, A. 12897
Laudencia-Chingcuanco, D. L. 8477
Laudié, M. 5775
Lauer, F. I. 607, 2989, 8240
Lauerer, M. 6493
Laughner, B. 653
Laukineitienė, J. 3356
Laurain, D. 988
Lauranson-Broyer, J. 2132
Laurens, F. 9519
Laurent, V. 2048, 8537, 9714
Laurentiis, G. de 7357
Laurentín, A. I. 4977
Laureys, F. 11527
Laurie, D. A. 7837, 10173, 12603
Laursen, C. M. 4819
Laursen, N. B. 10464
Lavaud, J. J. 1908
Lavi, U. 1919, 4184, 9630, 12019
Lavigne, C. 6667
Lavin, A. A. 1902
Lavithis, M. 11215
Lavoie, G. 1144
Lavranos, J. J. 9906
Lavrova, N. V. 9027
Law, C. 1238
Law, C. N. 10101
Law, D. M. 550
Lawande, K. E. 10690
Ławicki, T. 5181
Lawless, J. R. 3585
Lawlor, D. W. 3287, 5461, 6488
Lawn, R. J. 512, 2275, 3950, 6103, 10532, 11778, 11782
Lawrence, B. 13383, 13391
Lawrence, D. F. 11816
Lawrence, G. 956
Lawrence, M. 7343
Lawrence, M. J. 3041, 3428, 7541-7543, 9915-9916
Lawrence, P. 2279
Lawrence, P. K. 1474, 6510
Lawrence, T. 9265
Lawson, C. G. R. 12816
Lawson, E. J. R. 5773
Lawson, H. 841
Lawson, S. D. 7527
Lawton, K. 2075, 2266, 5742, 7661
Lawton, K. A. 10031
Lay, C. L. 9759, 10854
Lay-Yee, M. 7251
Layrisse, A. 4268, 8505
Lazar, M. D. 3667
Lazarides, M. 1473
Lázaro, J. J. 8194
Lazaroff, W. R. 11030
Lazarov, N. 10185
Lazarowitz, S. G. 3312
Lazarte, J. E. 10633
Lazić-Jančić, V. 324, 1462
Lazzari, B. 9140
Lazzari, G. 10344
Lazzari, L. B. 4652
Lazzaroni, N. 6918, 7891
Lazzeri, P. 2424
Lazzeri, P. A. 12597
Lê, C. L. 9651, 10583
Le Gall, O. 5474
Le Guen, J. 5001, 8167, 8169
Le Guen, L. 11201
Le Guen, V. 852
Le Lézec, M. 10717, 10737
Le Nard, M. 4447
Le Page, R. 7319, 7322-7323
Le Roy, P. 12428
Le Saint, J. P. 6369-6370, 6407
Le Thiec, D. 7488
Le Tran Binh 6577
Lea, P. J. 5709, 11189
Lea, V. 6823, 12607
Leach, C. K. 12323
Leach, C. R. 2381
Leach, G. E. 12703
Leach, G. J. 11003
Leach, J. E. 1606, 8047, 10388
Leach, S. S. 1797
Leader, D. J. 9986
Leah, R. 6500
Leal, D. 11547
Leal, M. de L. da S. 10873
Leal-Lara, H. 4501
Lean, I. J. 11287
Learn, G. H. 13294
Learn, G. H., Jr. 2398, 2400
Leath, S. 10131, 10156-10157, 10200
Leaver, C. J. 1418, 4233, 10569, 10709, 10859
Leaver, J. 10857
Lebeda, A. 1861, 3097, 4552, 7204, 8314, 12904
Lebedeva, A. T. 10057
Lebedeva, L. V. 10773
Leblanc, N. 13203
Leblay, C. 4129
Leborgne, N. 9780
Lebot, V. 788, 10992
Lebreton, P. 2132
Lebrun, P. 7432, 7562, 9763
Lebskiĭ, V. K. 5056
Lebsky, V. K. 5056
Lecharny, A. 8807
Lechner, W. R. 1491
Leckie, D. 3199
Leclercq, P. 12866
Lecoeur, J. 9320
Lecoq, H. 4111
Lecouteux, C. 5118
Ledbetter, C. 11957
Ledbetter, C. A. 814, 6300, 13059
Ledig, F. T. 3338
Ledoigt, G. 12059
Leduc, N. 156, 7738, 11310
Ledyaĭkina, N. A. 12536
Lee, A. 10021
Lee, B. C. 8595
Lee, B. K. 11068
Lee, C. H. 2356, 9834
Lee, C. K. 1356, 2780, 9296, 11674
Lee, C. T. 12954
Lee, C. Y. 9579-9580
Lee, D. J. 6129, 6439, 6867
Lee, D. S. 1934
Lee, E. A. 7966, 11498
Lee, E. H. 12862
Lee, E. S. 1356
Lee, F. M. van der 3531
Lee, F. N. 8050, 11549
Lee, H. B. 9113-9114
Lee, H. H. 1934
Lee, H. I. 1114, 4581
Lee, H. S. 1313, 2863, 4908, 6582, 11077, 11699
Lee, H. T. 11588
Lee, I. 5780
Lee, J. 13275
Lee, J. H. 6867, 6989, 8908
Lee, J. I. 1993, 1998, 4908
Lee, J. M. 7386
Lee, J. S. 12275
Lee, K. 3505
Lee, K. H. 2320, 9664
Lee, K. W. 12691
Lee, K. Y. 13294
Lee, L. 12954
Lee, L. C. 6480
Lee, M. 2368, 5988, 7865, 7900, 7936, 7976, 9037, 11504
Lee, M. C. 3349
Lee, M. L. 5316, 6031
Lee, N. 399
Lee, N. S. 6590
Lee, R. D. 11522
Lee, S. 539
Lee, S. A. 7251
Lee, S. C. 933
Lee, S. J. 12207
Lee, S. K. 4757, 8595, 10991
Lee, S. S. 3151
Lee, S. Y. 11699
Lee, T. M. 1524
Lee, V. Y. H. 7370
Lee, W. B. 7526, 12830, 12864
Lee, W. H. 13172
Lee, W. K. 9113-9114
Lee, Y. H. 6022, 6046, 10169
Lee-Stadelmann, O. Y. 4658
Leech, M. J. 5046
Leech, R. M. 5783, 6478
Leegood, R. C. 5709
Leela Sahijram 4639
Leemans, J. 1233
Leenakumari, S. 1534
Leeper, P. W. 4050
Leeuwen, P. van 5010, 5013
Leever, G. 11793
Lefebvre, C. 6487, 6491
Lefebvre, M. 12809
Lefebvre, V. 698, 7235
Lefèvre, F. 12191
Leffel, R. C. 6138, 9346-9347
Lefkovitch, L. P. 3882, 4520
Lefort-Buson, M. 12428
Lefranc, M. 5339-5340
Legard, D. E. 8274
Legaré, D. 5559
Legaria Solano, J. P. 6765
Legendre, B. L. 5408, 5413, 6445, 8521
Legesse, G. 3026
Legg, D. E. 1659
Legg, P. D. 4290, 12149, 12151
Leggett, J. M. 4791, 12787
Leghari, A. B. 12164
Legrand, M. 2057, 5469, 6505-6507, 6629
Legué, V. 13201
Lehfer, H. 275, 5907
Lehman, L. J. 730
Lehman, V. G. 3906, 6072, 9856
Lehmann, J. 1376, 4949, 6727, 11622
Lehmann, P. 3926, 5378
Lei, J. J. 12048
Lei, W. 11646
Leĭbovich, A. S. 5429
Leibovich, G. 3094
Leidi, E. O. 6521, 9752
Leimgruber, R. M. 5755
Leis, M. 5278
Leisle, D. 1312
Leisy, D. J. 11556
Leitão, F. A. 4246
Leitch, A. 11282
Leitch, A. R. 3573, 5843, 10062
Leitch, I. 11282
Leitch, I. J. 1347, 5843, 7837, 10062
Leite, A. 6883
Leith, H. 2260
Leiva, A. 12339, 12341, 13328
Lejeune, B. 3590, 6743, 9996, 12781
Lejeune, P. 2358
Lejoly, J. 8293
Lek, K. C. 4344
Lekeš, J. 2578, 12615
Lelivelt, C. L. C. 828, 840
Lellbach, H. 2978, 3006
Lelu, M. A. 2148, 6554-6555, 12224
Lema, N. 12194
Lemaux, P. G. 5908
Leme, A. C. 9191
Lemes, C. 7548
Lemes, M. 2226
Lemežis, E. 2786, 11631
Lemieux, C. 4426, 8680
Lemke, P. A. 13404
Lemmens, M. 2525, 2543
Lemmon, B. E. 13377
Lemoine, A. 8166
Lemoine, J. 5241, 11953
Lemoine, M. 13273
Lending, C. R. 1447
Lendini, M. 4652
Leneman, M. 6986
Lenman, M. 4208, 5352
Lenoir, P. 12989
Lent, J. W. M. van 10916
Lentini, Z. 6043
Lenton, J. R. 5939, 12527
Lentz, E. M. 7023
Lenz, F. 865, 13163
Léon, J. 7584, 10174
Léon-Kloosterziel, K. M. 81, 7643
Leonard, B. R. 9758
Leonard, K. J. 6800, 6906
Leonardi, A. 1405, 7879
Leonards-Schippers, C. 7166
Leoncito, C. D. 8624
Leone, A. 6112
Leonov, M. V. 4631
Leoschcke, V. 12028
Lepetit, M. 12398
Lepík, M. 11322
Lepiniec, L. 11183
Leplé, J. C. 7436
Lepoivre, P. 7585
Leppen, H. T. C. 4439
Lepper, M. 8979
Lerbs-Mache, S. 4038
Lercari, B. 10665
Lerchl, J. 11192
Lercker, G. 10874
Leroux, A. 9786
Leroux, G. D. 8082
Leroy, P. 7733, 12489
Leroy, T. 4282, 10919, 12120
Les, D. H. 2398-2399
Lesbore, O. 895
Lescure, B. 1156, 4586
Lescure, J. C. 6491
Leshin, V. N. 4728
Leskovar, D. I. 1808
Leslie, C. 8458
Leslie, C. A. 816
Leslie, G. 5424
Leslie, G. W. 13181
Lesnevich, L. A. 5431
Lespinasse, J. M. 5230
Lespinasse, Y. 3114, 3117, 7256, 8393
Lesser, W. 502
Lessios, H. A. 2372
Lester, D. R. 4440, 10758
Lester, D. T. 9829
Lester, R. N. 13023
Lesueur, D. 13222
Létal, J. 11704
Letal, J. R. 4007
Leterme, S. 8540

Letham, S. 3519
Letkovskiĭ, V. P. 10446
Leto, C. 3192
Leto, K. J. 13237
Letouzé, R. 4115
Letouzey, J. 9785
Letschert, J. 2034
Letschert, J. P. W. 9709
Lett, J. M. 6307
Lett, M. C. 10934
Letts, J. B. 11263
Leube, M. P. 7631
Leuenberger, B. E. 1035
Leung, J. 7630
Leung, N. 4678
Leunissen, E. H. M. 8306, 11866
Leuschner, K. 4873
Leustek, T. 645, 11208, 12411
Leuven, F. van 632, 8299, 8703
Leva, A. R. 8433
Levall, M. W. 4280
Lever, A. 3520
Leverich, W. J. 85
Levi, A. 7284, 9566
Levi, M. 8191
Leviatov, S. 9546
Levin, B. R. 1101
Levin, D. A. 2180
Levings, C. S., III 311, 315, 3741, 9726, 10250
Levy, D. 609, 9473, 10591
Levy, M. 8051
Levy-Benshimol, A. 9390
Lewald, J. 1166, 4596, 5787
Lewandowski, D. J. 5478
Lewartowska, E. 2915
Lewellen, R. T. 899, 9702-9703
Lewin, L. 9197
Lewinsohn, E. 9808
Lewis, B. A. 9602
Lewis, D. J. 6237
Lewis, G. P. 10562
Lewis, I. 11959, 13002
Lewis, L. J. 3200
Lewis, M. E. 2914
Lexander, K. 897
Leyden, B. W. 11480
Leyva, A. 12409
Leyva Mir, G. 2833
Lézec, M. le 10717, 10737
Lhaloui, S. 6803-6804, 6807
L'Homme, Y. 5362
Li, A. M. 3860
Li, A. Q. 2104
Li, B. D. 685
Li, B. J. 810, 4883, 6327, 12488
Li, B. L. 6520, 7483
Li, C. B. 952
Li, C. C. 6030
Li, C. G. 2734-2735
Li, C. L. 7263
Li, C. Y. 3819
Li, D. F. 12174
Li, D. H. 2741, 7982
Li, D. J. 8048
Li, D. Q. 4721
Li, D. Y. 3850
Li, F. 746, 4756, 8377
Li, F. G. 5683
Li, F. J. 6816
Li, F. S. 7087, 11721
Li, F. X. 1690, 10881
Li, G. F. 9800
Li, G. G. 804, 1790
Li, G. H. 3344
Li, G. L. 6029
Li, G. Z. 6325
Li, H. 981, 9601, 12499
Li, H. B. 2747, 11580
Li, H. H. 11604
Li, H. J. 997
Li, H. M. 7650, 11317, 12889
Li, H. W. 11317
Li, H. X. 11727
Li, J. 2751, 12050
Li, J. C. 11385
Li, J. D. 405
Li, J. G. 2380
Li, J. L. 241, 9748, 10967
Li, J. M. 189, 279
Li, J. Q. 1867, 9221
Li, J. S. 10053
Li, J. Z. 9234
Li, K. Q. 2097
Li, K. Z. 753, 5479
Li, L. 2119, 5549, 5987
Li, L. C. 2142, 3822
Li, L. H. 1279, 4654, 11624, 12539
Li, L. R. 6975
Li, L. S. 11391
Li, L. Y. 3656, 6494, 7391
Li, L. Z. 219
Li, M. 8477
Li, M. G. 316, 5964
Li, M. L. 10380
Li, M. S. 183, 12710
Li, M. X. 6602
Li, M. Y. 12014
Li, M. Z. 2106, 4343
Li, N. 12857
Li, N. H. 11581
Li, P. 441, 3339-3340, 5606, 10049
Li, Q. B. 8309, 11868-11869
Li, Q. F. 3328
Li, Q. W. 6443
Li, Q. X. 2738
Li, R. G. 3818, 9938
Li, R. Q. 10363
Li, R. T. 7306
Li, S. G. 7874
Li, S. H. 6329
Li, S. J. 948, 5210
Li, S. L. 1894, 7260
Li, S. T. 10322
Li, S. W. 891
Li, S. X. 4499, 5682
Li, T. 391
Li, T. Y. 5549
Li, W. 4624, 11562
Li, W. H. 6684, 8629, 11261
Li, W. J. 3027
Li, W. M. 6029
Li, W. X. 11334
Li, X. 11912
Li, X. D. 3656, 8431
Li, X. F. 10985
Li, X. G. 5296, 8395
Li, X. H. 120, 1574, 6968, 11707
Li, X. L. 3656, 9574, 12326
Li, X. M. 11727, 11727
Li, X. P. 12507
Li, X. Q. 1279, 11624
Li, X. X. 806, 10379
Li, Y. 506, 6128, 6602, 8149, 10642, 11209
Li, Y. A. 3362
Li, Y. C. 385, 10089, 11327, 13130
Li, Y. F. 1821, 12708
Li, Y. G. 3536, 3889, 3917, 4942
Li, Y. H. 207, 11299, 11301, 12504
Li, Y. I. 6968
Li, Y. J. 907
Li, Y. L. 925
Li, Y. P. 887, 11964
Li, Y. Q. 1277, 11814
Li, Y. R. 6442
Li, Y. X. 3701
Li, Y. Z. 10741
Li, Z. 2080, 10965
Li, Z. B. 1540
Li, Z. F. 10350
Li, Z. J. 864
Li, Z. L. 6010
Li, Z. Q. 6326, 8969, 9620
Li, Z. S. 2102, 2445, 9748
Li, Z. W. 10856
Li, Z. X. 5319, 10960
Li, Z. Y. 7090, 11725
Lian, J. H. 2739
Liang, C. Y. 2733, 9209
Liang, C. Z. 12740
Liang, D. S. 6164
Liang, G. H. 6916, 6922, 6936, 7695, 11520, 12740
Liang, G. L. 5317, 9574, 12326
Liang, H. 10086
Liang, J. H. 7276
Liang, J. X. 6324, 12927
Liang, O. B. 8539
Liang, Q. 12506
Liang, S. C. 10129
Liang, X. W. 3503
Liang, Y. M. 246
Liang, Z. D. 11627, 13350
Liang, Z. F. 9357
Liang, Z. Q. 8888, 10091
Liang, Z. Y. 3819, 6034
Liao, B. S. 10885-10886, 12084, 12087
Liao, C. H. 12954
Liao, J. H. 5683-5684
Liao, L. 11731
Liaw, W. J. 1895
Libbenga, K. R. 5915
Libby, W. J. 2264, 9828, 13325
Liberman, U. 8826
Libesku, L. 9479
Libiaková, G. 5600
Lichius, J. J. 12292
Lichkov, A. 10580
Lichtenstein, C. P. 3305, 5477
Lichtenthaler, H. K. 12148
Licy, J. 12177
Liddell, A. 10569
Liddle, D. J. 4402
Liddle, S. A. 1959
Lie, T. A. 558
Liebenberg, H. 1641
Liedgens, H. 1166, 4596, 5787
Liedl, B. E. 11246, 11884
Lien, K. A. 8168
Lienard, V. 5072
Liener, I. E. 4980
Lienhard, S. 10613
Lieshout, O. van 7227
Lifschitz, E. 7219-7220
Ligarreto, G. A. 9511
Lightfoot, D. C. 3373
Lightner, J. 4064, 5781, 12417
Ligia, M. 9438
Liharska, T. 5191, 12995
Lijsebettens, M. van 11222
Lila, M. 5976
Lillevalli, H. 2613
Lilley, J. M. 6827
Lim, C. K. 5341
Lim, H. C. 5653
Lim, H. T. 11919
Lim, J. T. 10335
Lima, M. B. 3044
Lima, M. F. 4099
Lima, M. R. de 651
Lima, M. S. 10552
Lima-de-Faria, A. 2377
Lima e Borges, V. E. de 10619
Limin, A. E. 10130, 11163
Limongelli, F. 9642
Limpert, E. 11362
Limpinuntana, V. 10882
Lin, A. C. 5326
Lin, B. 12013
Lin, B. L. 11224
Lin, B. N. 1910
Lin, C. J. 875
Lin, C. M. 496
Lin, C. P. 10493
Lin, C. S. 1603, 3473
Lin, C. T. 4018
Lin, C. Y. 6646, 9233
Lin, D. T. 118
Lin, D. W. 7995
Lin, D. X. 3819
Lin, E. 1909
Lin, F. 9206
Lin, G. J. 648, 5156
Lin, H. 9204
Lin, H. R. 2105
Lin, H. X. 2748, 9202
Lin, J. 6665
Lin, J. B. 648, 5156
Lin, J. R. 3828, 7974
Lin, J. Y. 3349
Lin, J. Z. 2120
Lin, K. 7255
Lin, K. R. 9137
Lin, L. F. 584
Lin, M. S. 6012, 10472, 12705
Lin, M. T. 3349
Lin, P. Q. 2103
Lin, R. H. 436
Lin, S. C. 3850
Lin, S. F. 508, 10472
Lin, S. H. 12326
Lin, S. L. 183
Lin, S. Q. 1896
Lin, S. Y. 10353, 11558
Lin, T. A. 6707
Lin, T. F. 2757
Lin, T. P. 4383, 12196
Lin, T. Y. 920, 12122
Lin, W. J. 7874
Lin, W. Y. 1605
Lin, X. 4015
Lin, Y. 10965
Lin, Y. B. 2524
Lin, Y. C. 9620
Lin, Y. Q. 6440
Lin, Y. R. 7975
Lin, Y. W. 12003
Lin, Y. Z. 3838, 12727
Lin, Z. P. 1401, 8767
Lin, Z. S. 3618
Lin, Z. X. 6017
Linacero, R. 10209
Linard, C. G. 3498
Lind-Halldén, C. 10837
Linda, S. B. 4135
Lindbeck, A. G. C. 5468
Lindbo, J. A. 4310, 9733, 9970
Linde, S. 5628
Linde-Laursen, I. 2651, 9267, 12800
Linden, H. 4315
Linder, C. R. 3202
Linders, H. 1815
Lindgren, C. J. 8676
Lindgren, D. 1176, 4366, 4370, 5581, 9811, 13298
Lindgren, D. T. 3387, 9863
Lindhout, P. 1817, 8343
Lindquist, R. K. 3078
Lindsey, K. 3531, 7633, 8330, 8547
Lindstrom, J. T. 4589, 11702
Lindstrom, O. M. 2974
Lindstrom, O. M., Jr. 9853
Line, R. F. 3654, 5895, 6798
Lineberger, R. D. 4050
Ling, D. H. 2761
Ling, J. T. 10809
Ling, N. 4472
Ling, X. 13105
Ling, Y. L. 2857, 11697
Lingaiah, H. B. 8294
Lingarju 1542
Lingle, S. E. 9174
Lingnert, H. 10202
Linhart, Y. B. 465, 12251
Linington, S. 4911
Link, G. 9675
Link, W. 10494-10495, 10497, 10499, 11734-11735
Linnestad, C. 6829, 12600
Linscombe, S. D. 386, 1517, 9241
Linstead, P. 12261
Lintas, C. 10797
Linthorst, H. J. M. 5472, 6504, 8564
Lio, G. M. di san 4245
Lioi, L. 12871, 12878
Lipkin, E. 1137
Lipp-Nissinen, K. H. 4566
Lippok, B. 8670
Lipps, P. E. 7960
Lippuner, V. 12403
Lira, M. A. 11528
Lira, R. 11941
Lisá, L. 7115
Lisboa A., N. 940, 2851
Liscum, E. 2357, 6677, 8819, 11220
Lisiewska, Z. 13063-13064
Lisker, N. 12090
Lišková, D. 5597, 8735
Lisovskaya, T. P. 1839

Lisowsky, T. 11177
Lister, C. 61, 3530, 4436, 6579, 7616, 9667
Lister, R. M. 3683
Listman, G. M. 9001
Litrico, P. G. 3201
Littlejohn, G. M. 1265, 1387, 1637, 12801
Litvak, S. 10082, 10088
Litvinenko, N. A. 4728
Litwińczuk, W. 12905
Litz, R. E. 3556, 7195
Liu, A. M. 408
Liu, B. 6673
Liu, B. G. 10360
Liu, B. H. 4770, 12210
Liu, B. Q. 3839, 6027
Liu, C. 6172
Liu, C. A. 5092
Liu, C. F. 6816
Liu, C. H. 453, 7769
Liu, C. J. 7836, 12535
Liu, C. M. 6968
Liu, C. Y. 12547
Liu, D. 5450, 13234
Liu, D. F. 3470, 5370
Liu, D. H. 2741, 6460
Liu, D. J. 192, 197, 242, 1283, 1704
Liu, D. P. 2080
Liu, E. M. 2771
Liu, E. P. 717
Liu, F. 10642
Liu, F. N. 925
Liu, F. Z. 5827
Liu, G. F. 806
Liu, G. H. 12039, 13130
Liu, G. M. 8581
Liu, G. Q. 939, 10979, 11603, 13239
Liu, G. T. 3631
Liu, G. Z. 118
Liu, H. 7740, 10072
Liu, H. B. 6310
Liu, H. L. 5370, 7982
Liu, H. M. 10960
Liu, H. T. 9238
Liu, H. X. 441
Liu, H. Z. 8381
Liu, J. 2544
Liu, J. A. 807
Liu, J. D. 10979
Liu, J. J. 799
Liu, J. L. 9742
Liu, J. R. 8370, 9919
Liu, J. W. 5210, 6543
Liu, J. X. 7974
Liu, J. Y. 8894, 10073
Liu, K. M. 11499
Liu, L. 3743, 5667, 9022-9024, 13128
Liu, L. F. 11593
Liu, L. J. 2873, 8381
Liu, L. S. 629
Liu, L. X. 3631
Liu, M. C. 6444, 9700, 12108
Liu, M. H. 353
Liu, M. Y. 167
Liu, Q. 7264, 11604
Liu, Q. F. 2468
Liu, Q. Q. 9056
Liu, Q. Y. 9178
Liu, R. L. 11048
Liu, S. 4289
Liu, S. F. 11593
Liu, S. H. 10961
Liu, S. Y. 12958
Liu, T. G. 1490
Liu, T. K. 5314
Liu, W. 8810
Liu, W. H. 3818
Liu, W. X. 220, 4735
Liu, W. Y. 1531
Liu, X. C. 734
Liu, X. F. 8434
Liu, X. J. 8806
Liu, X. Z. 2778
Liu, Y. 7647
Liu, Y. B. 9221
Liu, Y. C. 2454, 3529
Liu, Y. D. 540
Liu, Y. F. 282
Liu, Y. G. 1320, 7726
Liu, Y. H. 3698, 10961
Liu, Y. Q. 6774, 8321
Liu, Y. R. 6543
Liu, Y. S. 3821
Liu, Y. X. 2119
Liu, Y. Y. 11499
Liu, Y. Z. 3819, 11551
Liu, Z. 183, 7446, 8601
Liu, Z. B. 10463, 11209
Liu, Z. G. 9745
Liu, Z. L. 271, 7034, 11423
Liu, Z. Q. 11327
Liu, Z. R. 9520
Liu, Z. W. 2802
Liu, Z. X. 339, 7947
Liu, Z. Z. 792
Liverani, A. 5255
Livinder Kaur 572
Livingston, W. H. 5594
Livingstone, M. 5404
Livneh, O. 10683, 10949
Liyanage, A. S. U. 1868
Ljubich, A. 8495
Ljungberg, A. 12036
Llaca, V. 12879
Llácer, G. 5245
Llauradó, M. 1458, 11464
Llewellyn, D. 5985, 9972
Llewellyn, D. J. 5746
Llorente, F. 7871
Lloyd, A. M. 7390, 12419
Lloyd, C. W. 310, 4632, 5799
Lloyd, D. G. 6698-6700
Lloyd, H. L. 2297
Lloyd, J. 9696, 13229
Lo, C. C. 875, 2004, 2008, 6438, 9695
Lo, K. T. 11534
Lo, P. K. 11585
Loader, N. M. 4205
Loaiza, J. M. 5145, 11918
Loake, G. J. 2350
Lobin, W. 6589
Löbler, M. 2824, 3919
Locatelli, F. 4676
Löchelt, S. 12220
Lock, A. A. 5883
Lock, J. M. 7068
Lockhart, P. J. 5823
Lockwood, D. J. 955
Locy, R. D. 9120
Lodder, S. 4491
Lodge, G. M. 2806-2807, 3897-3898, 11651, 12798
Lodge, J. K. 4480
Lodh, S. B. 3844, 4250
Lodha, S. 12926
Lodhi, A. 12555
Lodhi, G. P. 595
Lodkaew, S. 1711
Loeppert, R. H. 9301
Loevinsohn, M. E. 11738
Loewen, P. C. 8857
Löffler, H. J. M. 3419, 4451
Loftus, M. G. 13400
Logeeswaran, G. 12712
Logemann, J. 4813, 6500
Logemann, S. 6500
Logie, F. 13222
Logue, S. J. 5917
Loguercio, L. L. 4302
Logvinenko, V. F. 10085
Logvinov, V. A. 7377
Logvinova, A. P. 7377
Loh, C. S. 4453
Lohman, F. P. 4470
Lohman, K. N. 5780
Lohmer, S. 3715, 5971
Lohnes, D. G. 9371
Lohuis, M. R. ten 4563
Lohuis, M. ten 8700
Loi, A. 6081
Loidl, J. 3539, 4629, 11239
Loidl, P. 7935
Lois, R. 8744
Loisel, P. 12428
Loitsch, S. M. 1112, 2266
Łojkowska, E. 2981, 8265, 11837
Lokendra Kumar 9417
Lolle, S. J. 3516
Lomax, T. L. 674
Lombardo, G. M. 2860
Lombardo, V. 5483-5484
Lomelí Osuna, C. 2833
Lomonossoff, G. P. 5476
Londoño Maya, A. 2010
Loneragan, J. F. 1711
Long, D. 3505, 5773, 8815
Long, D. L. 4662, 5897, 6800
Long, D. Y. 12003
Long, H. 8629
Long, J. J. 450
Long, S. P. 10283
Longhi-Wagner, H. M. 4938
Longland, A. C. 7867
Longo, O. T. del 7950
Longstaff, M. 6502
Longuet, M. 6481
Lönneborg, A. 4565, 11176, 12600
Lönnig, W. E. 6581, 10041-10042
Lonsdale, D. M. 922, 5834, 9721
Loo, E. N. van 10394
Loo, F. J. van de 12093
Loo-Dinkins, J. A. 2111
Lookeren Campagne, M. M. van 6347
Lookhart, G. L. 1294, 11343
Loomis, R. S. 12328
Loon, L. C. van 146, 1077
Loon, P. C. C. van 4494
Loonen, A. 1778, 8543
Loos, B. P. 4919, 4921, 9253
Loose, M. de 12130
Loosveldt, P. 7488
Lopato, S. V. 12009
Loper, M. 5608
Lopes, C. A. 5110
Lopes, C. R. 5441
Lopes, M. A. 1447, 3566, 12474
Lopes, S. A. 9701
López, A. 12338
López, A. P. 8735
López, J. M. 6521, 9752
López, L. 12340
López, L. A. 2662
López, M. 6521, 9752
López, R. 3927
Lopez, V. F. 10313
López-Atilano, R. M. 8935
López-Báez, O. 2049
López Baltazar, J. 762
López-Braña, I. 4746
López-Castañeda, C. 11273
López-Cesati, J. 12558
López-Fando, J. J. 3479
López-Ferrari, A. R. 8723
López-Gorgé, J. 8194
López-Iglesias, C. 1138
López-Juez, E. 4061, 8175
López-Rodas, G. 7935
Lorang, J. 1116
Lord, E. M. 1822, 8708, 11218
Lordello, A. I. L. 4852
Lordello, R. R. A. 4852
Lorenz, M. 13186
Lorenzetti, M. 4652
Lorenzo, G. de 5022, 11747
Lorenzon, M. C. A. 5141, 7192
Lorenzoni, C. 9545, 11472
Loreti, F. 6409
Loretz, C. J. 9978
Lorgeou, J. 11416, 11502
Loria, R. 9476, 11841
Lorieux, M. 12428
Lörz, H. 1417, 2424, 2501, 2680, 2686, 2979, 3578, 4681, 5916, 6239, 7696, 7884, 12597
Losada Gavilanes, M. 11069
Löschenberger, F. 2470, 4709
Loskutov, I. 10197
Loskutov, I. G. 6865
Losso, M. 11968
Lothrop, J. E. 5950
Lotito, S. 2129, 2302
Lottspeich, F. 986
Lou, H. 9402
Loughman, R. 7799
Louguet, P. 7488
Louie, R. 9159, 10292
Louis, I. H. 6378, 6380
Louis, O. 11733
Lourenção, A. L. 5179, 6273
Lourens, A. 11999
Loustau, D. 5586
Louter, J. H. 13421
Louwagie, J. 7411
Louzada, E. 4597
Louzada, E. S. 3174
Lovász, T. 8383, 8385
Lovate, A. A. 5259
Lovati, F. 10772
Love, M. E. 11125
Love, S. L. 4009, 10587
Lovell, G. 4083, 6912
Loven, K. van 12150
Lovett Doust, J. 5710
Loveys, B. R. 2796
Löw, R. 3351
Lowe, A. 675, 1829, 8325
Lowe, C. C. 10431
Lowe, K. 7956, 9167
Lowe, K. C. 958, 4342, 5805
Lowe, K. F. 12790
Lower, R. L. 12356
Lownds, N. K. 9557, 10694
Loyter, A. 6586
Lozano, N. B. de 13114
Lozano, Y. F. 5327
Lozano-C., G. 13114
Lozanov, I. 2027
Lozoya-Glória, E. 53
Lu, A. M. 1867
Lu, B. 10349
Lu, B. C. 2245
Lu, B. R. 3886, 4927, 7033, 8079, 9259, 10404, 12800
Lu, B. W. 11076
Lu, C. G. 6982
Lu, C. S. 4383
Lu, C. Y. 3412, 4440, 8655
Lu, D. B. 219
Lu, D. Y. 2847
Lu, G. Q. 621
Lu, H. N. 2854
Lu, H. R. 2103
Lu, H. S. 4847, 10300
Lu, H. Y. 10984
Lu, J. 8132, 9202, 9204
Lu, J. H. 11585
Lu, J. L. 7264
Lu, K. Y. 2739
Lu, L. M. 10979
Lu, L. X. 1911
Lu, L. Y. 2106, 4343
Lu, M. 8474
Lu, M. L. 6982
Lu, M. Z. 5549
Lu, Q. H. 7087
Lu, S. Y. 3027, 10073
Lu, T. G. 7740
Lu, W. Z. 200
Lu, X. X. 5852
Lu, Y. H. 879, 8512, 12489
Lu, Y. J. 1530
Lu, Y. M. 12112
Lu, Y. R. 5652
Lu, Y. T. 13208
Lu, Z. H. 2119, 9363
Lu, Z. M. 8408
Lu, Z. T. 1508, 3828
Lu, Z. X. 4453
Luan, S. 10500
Luan, W. Q. 6415, 12075
Luan, X. Y. 2873
Lubbers, H. H. 6801
Lübberstedt, T. 7201, 8310
Lubbinge, J. 1641
Luby, J. J. 3146, 7287, 11993-11994
Lucas, H. 3574
Lucas, M. 4315
Lucas, M. C. 9750-9751, 10980, 12172
Lucas, M. O. 9668

Lucas, W. J. 3523, 4308, 11170, 13227
Lucas Bueno, C. de 5886
Lucchesini, M. 4356
Lucchi, P. 5274
Lucena, N. M. de 11043
Lucenko, G. N. 7896
Luckett, D. 2429
Luckett, D. J. 12473
Luckow, M. 3938
Lucksom, S. Z. 9897, 11091
Lucretti, S. 12437
Lucy, A. 5122
Ludden, P. W. 3961
Ludevid, D. 5960, 12661
Ludlow, M. M. 1475, 1986-1989, 6447, 11277
Ludwig, W. 6884
Ludwig, W. F. 2656, 6868, 11435
Ludwig-Müller, J. 12975
Luehrsen, K. R. 6886, 10236
Luer, C. A. 4457, 5655
Luerssen, H. 12416
Luftensteiner, H. W. 139
Lugade, M. R. 2201
Lugert, T. 11429
Lugli, S. 3104
Lugtenberg, B. J. J. 2266
Lui, B. 6034, 10371
Lui, C. N. 12657
Lui, R. 6681
Luisetti, J. 11981
Lukarska, E. 4095
Lukaszewski, A. J. 3602, 3612, 6746, 10214
Lukomets, V. 5904
Lukose, R. 6611
Lukoševičius, A. 3103
Lukow, O. M. 231, 2500
Lulai, E. C. 4000
Lum, K. Y. 13165
Lumaret, R. 5279, 10052
Lummerzheim, M. 4597
Lumpkin, T. A. 7067
Lumsden, P. J. 1199
Lundqvist, A. 2375, 2849
Lundqvist, U. 2434, 2610
Łuniewski, H. 598-599
Lunin. N. K. 2041
Luntz, T. 936
Luo, B. S. 2741
Luo, D. 2196, 6580
Luo, G. 12834
Luo, K. 838, 8048
Luo, L. J. 3792, 10337, 11577
Luo, L. Q. 2128
Luo, L. Y. 12170
Luo, M. 399, 1123
Luo, M. C. 190, 1302, 3598
Luo, P. 838
Luo, S. Y. 2105, 2107
Luo, W. Z. 3821
Luo, X. M. 1690, 9316
Luo, X. T. 6604
Luo, Y. W. 11521
Luo, Y. Y. 12232
Luo, Z. W. 4617, 7665
Luong Minh Chau 1601-1602
Luong Thi Phuong 1602
Lupattelli, M. 6832
Lupeĭ, A. Yu. 6874
Lupo, R. 5480, 8569
Lupotto, E. 4676, 7891
Lupu, C. 9387
Lupu, G. 9387
Lur, H. S. 1422
Lurquin, P. F. 581, 610
Lusardi, M. C. 7882, 10239
Luteyn, J. L. 6306
Luth, D. 1402
Luthar, Z. 1299, 1621
Luthra, J. K. 252, 1338
Luthra, O. P. 251, 12576
Luthra, R. 2013
Lutova, L. A. 3032-3033, 10515
Lutsenko, G. N. 7896
Lutsishina, E. G. 6760
Lüttge, U. 3351
Lütticke, R. 3729
Lütticke, S. 3495, 5966
Lutyńska, R. 11632, 12792
Lutz, A. 12581
Lutz, I. 7198
Lutz, J. 247, 11362, 12570
Lutziger, I. 9722
Lux, A. 4761, 5597, 8735
L'vov, N. P. 2911
Lyakh, V. A. 1463, 6900
Lyatkoŭskī, V. P. 10446
Lycett, G. W. 7215
Lydiate, D. 3562, 9667
Lydiate, D. J. 6341
Lynch, D. 1776
Lynch, D. R. 3997, 7159, 10595
Lynch, J. 6161
Lynch, M. 8839
Lynch, P. J. 3686
Lynch, P. T. 10377
Lyne, R. L. 6835, 12610
Lynn, D. G. 2320, 13204
Lyon, B. 9972
Lyon, B. G. 745
Lyon, J. 3485
Lyons, E. E. 926
Lyons, P. C. 4840
Lyons, T. 4951
Lyra Netto, A. M. C. de 5071
Lyrene, P. M. 755
Lysikov, V. 2677-2678
Lysikov, V. N. 9093
Lyubavina, R. F. 1314
Lyubimova, V. F. 10083
Lyubina, S. V. 2317
Lyznik, A. 12389
Ma, B. L. 11466
Ma, C. 951
Ma, C. P. 11914
Ma, D. Q. 285
Ma, G. H. 1608
Ma, H. 3508, 3655, 6604, 12404
Ma, H. C. 4987, 7080
Ma, J. H. 282
Ma, J. K. C. 3277
Ma, J. S. 2152, 11036
Ma, J. X. 8392
Ma, J. Z. 494, 9314
Ma, L. R. 8376
Ma, Q. 10053
Ma, R. H. 6602
Ma, S. G. 5902
Ma, X. J. 13105
Ma, Y. 658, 5958, 12986
Ma, Y. H. 1710, 2854, 2866, 7083
Ma, Y. S. 11266
Ma, Z. R. 2761
Ma, Z. Y. 9745
Maag, W. 11792
Maagd, R. A. de 1165
Maan, S. S. 7753
Maas, F. B., III 8946
Maas, H. M. van der 3804, 6065
Maas, J. L. 4152
Maass, B. L. 4248, 4909
Maass, H. I. 7676
Mabberley, D. J. 11015
Mabbett, T. 3740
McAfee, B. J. 983
McAleese, S. M. 4265
McAlister, R. H. 13304-13305
Macalma, T. 2853
McBeath, J. H. 11227
McBlain, B. A. 1714, 9374, 10456
McBratney, B. D. 11288
McCabe, P. F. 7540
McCaig, T. N. 8, 1295, 2487, 7763-7764, 8877, 12511
McCanna, I. 937
McCarthy, J. C., Jr. 3317
McCarthy, M. G. 8424
McCartney, D. H. 10429
McCarty, D. R. 5974
McCarty, J. C., Jr. 6522
McCaslin, M. 1074
McCauley, P. G. 1045
McClean, P. E. 8182
McClelland, M. 2005, 13178
McClung, A. M. 8032
McClung, C. R. 78, 1161, 7641
McClure, B. 3282
McClure, B. A. 5802, 6484
McColl, A. L. 2100
McColley, D. W. 5207
McCollum, T. G. 7205
McComb, J. 9837
McComb, J. A. 5534, 5867
McConnell, D. J. 3875
McConnell, J. 8712
McConnell, M. E. 6069, 11641
McCormac, A. C. 3285, 10022
McCormick, S. 3544, 11884, 13001
McCosker, A. N. 1480-1481
McCouch, S. 2727, 11185
McCouch, S. R. 7002, 12768
McCourt, P. 10019
McCown, B. 8610, 10769
McCoy, T. J. 7048
McCraig, T. N. 180
McCreery, T. 10228, 10259
McCreight, J. D. 1858, 11901, 11906, 11911
McCubbin, A. 1818, 3406
McCue, K. F. 12146
McCullough, A. J. 9402
McCullough, D. E. 10218, 12081
McDaniel, G. L. 7517
McDaniel, M. E. 3667, 6858
McDaniel, S. T. 3371
McDavid, C. 12121
McDiarmid, G. 7863
McDonagh, J. F. 10882
McDonald, A. 1665
McDonald, D. 7367, 12911
MacDonald, D. H. 9326
McDonald, D. J. 2183
McDonald, G. I. 3361
McDougall, R. B. 1673
McDowell, S. W. 5527
Macedo, J. F. 11689
Macedo, R. 9438
McElroy, A. R. 2791, 2799, 8091
McElroy, D. 394, 7694, 10060
McEvoy, S. M. 6585
Macewicz, J. 460
Macfarlane, J. L. 10232
MacFarlane, J. R. 10775
McFarlane, N. M. 11674
MacFarlane, S. A. 5476
McFerson, J. R. 12970
Macfie, S. M. 11349
McGarvey, P. B. 13236
McGee, R. J. 2909
McGill, G. E. 13016
McGillivray, D. J. 2263
McGlasson, W. B. 8296, 8384
McGowan, J. 9606
McGranahan, G. H. 816, 8458, 10828
McGrath, A. 12809
McGrath, D. J. 8367
McGrath, J. M. 12933
McGraw, R. L. 9310
MacGregor, A. W. 7577, 8952
McGregor, P. G. 8571
McGuire, C. F. 1317, 11371
McGuire, P. E. 7705, 8084
McGurl, B. 4076, 6268
Machado, A. T. 6893
Machado, C. A. E. 7261
Machado, H. 12802
Machado, J. A. 7948
Machado, M. A. 5527
Machado, M. F. P. S. 2216
Machado, R. 12893
Machado, T. W. 13092
McHale, N. A. 929
Macháň, F. 11402
Mache, R. 308, 1156, 1821, 2673, 4038
Machemehl, F. 4199
Macherel, D. 1731
Machida, Y. 1147
Machii, H. 917
Machin, T. 789, 8444
Machlin, S. 5350
Machmud, M. 13167
McHughen, A. 3333
Machul'skiĭ, G. N. 6231
Maciarello, M. J. 13396
Maciel, G. A. 11528
McIntosh, L. 5023, 8145, 12388, 13225
McIntosh, M. S. 6075, 13339
McIntosh, R. A. 5894, 7739, 7793
McIntyre, C. L. 3803
MacIsaac, S. A. 43
Mack, R. N. 1643, 8089
Mackay, A. D. 1661, 7055-7056
Mackay, G. R. 2970, 2973, 10593, 10604, 11789, 11827, 12325
Mackay, I. J. 7579
Mackay, M. C. 2279
McKay, M. J. 6184
Mackenbrock, U. 6114
McKendry, A. L. 11361
McKenzie, K. S. 386, 1517, 9227
McKenzie, R. I. H. 2500
Mackenzie, S. 5023, 7035, 10505, 12389
Mackenzie, S. A. 2887
McKeown, A. 1776
MacKerron, D. K. L. 7164
McKersie, B. D. 678, 1655, 1658, 6084
Mac Key, J. 6737
McKhann, H. I. 2332, 8103
Mackill, D. J. 3831, 7002, 12768
McKimmy, M. D. 6557-6558
McKinion, J. M. 10968
McKinlay, R. G. 3017
McKinless, J. 4393
McKinney, S. 9677
McKinnon, G. E. 12524
McKnight, T. D. 3425, 7409
Macko, V. 12640
Maćkowiak, W. 2665, 8996-8997, 10210
McLaren, D. L. 11074
McLaren, G. F. 11959-11960
McLaren, N. W. 10298
McLarney, B. K. 5785
McLaughlin, M. R. 11679
McLaurin, W. J. 12955
McLean, B. G. 2319
McLean, M. 1014
McLean, N. L. 3922
McLeay, P. L. 9609
McLendon, M. E. 1317
MacLeod, D. A. 5604
MacLeod, J. 5831
McLeod, J. G. 180, 1386, 3629, 8877
McLeod, M. 7109
Macleod, R. D. 9183
McMahon, C. R. 9108
McManus, M. T. 8571
McMillan, G. P. 8268
McMillian, W. W. 347, 3752
McMillin, D. E. 2488, 5896
McMorris, F. R. 5762
McMorris, T. C. 8154
McMullen, M. D. 4987, 7080, 9159, 10229, 10292
McMullen, M. S. 4783
McNab, A. 7570
McNab, N. J. 1436
McNabb, H. S., Jr. 2117
McNabb, W. C. 8133
McNabb, W. M. 8485
Macnair, M. R. 471, 1011, 4432, 9873, 12807, 13354
McNamara, S. 9842
McNeil, D. 7824
McNeilage, M. A. 9606
McNellis, T. W. 10000, 10021
McNew, R. W. 10648
McNicol, J. W. 9449, 12945
McNicol, P. 13162
McNicol, R. J. 4146, 13071
McPartlan, H. C. 6354
McPeek, M. S. 2366
McPheeters, K. D. 3559
MacRae, E. 6256

MacRae, S. 5530, 9781
McRae, T. A. 3254, 12102
MacRitchie, F. 2505
McSteen, P. C. M. 2196
Mačuha, P. 2830-2831, 4953
McVay, J. R. 758
McVetty, P. B. E. 827, 3212
McVey, D. V. 168, 5897, 6800, 10075
McVey, M. J. 1708
Madan, J. K. 9125-9126
Maddaloni, M. 2344, 3715, 5971, 7889
Maddox, D. 936
Madej, L. 297
Madhavan, J. 12179
Madhavan, S. 6090
Madhu Meeta 13349
Madhulety, T. V. 234
Madhusoodanan, K. J. 6608
Madhyastha, M. S. 12569
Madin, K. I. 7736
Madinelli, C. 5249
Madrap, I. A. 4234
Madras Agricultural Journal 11539
Madriz-Ordeñana, K. 2913
Mądry, W. 13255
Madsen, O. 507
Maekawa, M. 10474
Maekawa, S. 10636
Mærsk-Møller, M. L. 6612
Maesato, K. 11086
Maesen, L. J. G. van der 7681, 9953
Maestrelli, A. 11962
Maestri, D. M. 7395, 11275
Maffei, M. 6614, 7555, 9941, 13394
Maga, G. 12550
Magalhães, J. R. 6893
Magallona, E. D. 4010-4011
Magan, N. 13410
Magari, R. 3758
Magdy, M. 4658
Maggard, S. 3845
Maggia, L. 3184
Maggiore, T. 2821-2822, 2832, 11472
Maggouta, F. 10907, 11177
Maggs, G. L. 1094, 2253
Magha, M. I. 4226
Magill, C. W. 6948
Magill, J. M. 12264
Magnanini, E. 742, 2309
Magnano di san Lio, G. 4245
Magnavaca, R. 1442, 6879, 6887, 6893, 12474
Magnier, I. 3944
Magnussen, S. 2143, 4374, 5516, 8583
Magnuszewski, T. 11645
Magpantay, G. 11185
Magrath, R. 3206, 6349, 6353, 6580, 9667, 10848
Magro, P. 2994
Maguding, M. A. 11605
Maguire, F. P. 8216
Maguire, M. P. 3733, 3735, 10249
Magyar, G. M. 6744
Magyar, Z. 7050
Mahabaleshwar Hegde 9654
Mahadevan, A. 5736
Mahadevappa, M. 1534, 1542, 3862, 12624
Mahajan, A. R. 2521, 4238, 10869
Mahajan, C. R. 11701, 12854
Mahajan, R. K. 6981
Mahajan, V. 329, 333, 3759, 9149, 10267, 10285, 10287
Mahal, M. S. 11942
Mahalakshmi, V. 10330
Mahana, N. K. 1560
Mahant, K. C. 8713
Mahdy, E. E. 10102
Mahendra Pal 10541, 10546, 12912
Maherchandani, N. 31
Maheshwari, J. J. 4863, 5992, 6933, 9223
Maheshwari, S. C. 2347, 5728, 6020, 6967, 12737
Maheswaran, G. 13329
Maheswari, M. 1111
Mahfouz, B. 6166
Mahishi, D. M. 5082
Mahmood, A. 5892
Mahmood, N. 11346
Mahmood, T. 8578
Mahmoud, M. H. 5206
Mahna, S. K. 3984
Mahrub, E. 7011
Mahto, J. L. 10845
Mahungu, N. M. 3022
Maia, G. A. 7180, 10619
Maier, F. J. 2664
Maier, F. P. 10416-10417
Maier, J. 5601
Maier, R. M. 309, 10231
Maier, U. G. 8855
Mailer, R. J. 4214, 7328
Maillet, D. 9025, 9044
Maine, M. J. de 2957, 2960, 4001, 8258, 8261
Maini, P. 9559
Mains, F., Jr. 5456
Mairata, A. M. 8378
Mairone, Y. 1061
Maĭstrenko, L. A. 10784
Maĭstrenko, N. D. 10610
Maĭstrov, P. D. 10211
Maisuria, A. T. 5498
Maĭsuryan, A. N. 5462, 7560, 11276
Maiti, I. B. 8561, 10946
Maĭtulina, Yu. K. 10768
Maity, S. S. 10121
Majeau, N. 545, 10521, 12123
Majeed, A. 1566, 6155, 12885
Majid, A. 12742
Majidi, E. 5328
Major, J. E. 5598
Major Singh 3985, 6895, 7144, 7153, 10498
Majtkowski, W. 2787
Majumder, N. D. 2756, 10362
Mak, C. 6319
Makai, S. 5671
Makałowski, W. 6092
Makanjuola, W. A. 9437
Makara, K. 633
Makara, O. 7997
Makaroff, C. A. 5136, 8311
Makarova, G. A. 2498
Makarova, I. Yu. 4773
Makhdoom, M. I. 4726
Makinde, M. J. 4084
Makinson, R. O. 2263
Makki, Y. M. 1264
Makkouk, K. M. 6115, 12578
Makne, V. G. 1984, 4234, 10879
Makogon, A. M. 5428
Makoveychuk, A. 1144
Makoveychuk, A. Y. 5666
Makridin, A. I. 5612
Maksimova, L. A. 11495
Mal, B. 11150
Malaboeuf, F. 5304
Malagamba, P. 11790
Malagoli, M. 3757
Malamy, J. 6503
Malan, F. S. 13265
Malathi, N. 1997
Malathi Lakshmikumaran 3194
Malavolta, V. A., Jr. 2941
Maldhure, B. B. 9439
Maldiney, R. 4207
Maldonado-Mendoza, I. E. 3425
Malec, P. 1010
Maleci, L. B. 9898
Malek, M. A. 4902
Malenga, N. E. A. 12118
Malet, M. 2993
Maletić, R. 28, 4714
Maletskiĭ, S. I. 13188
Maletsky, S. 13188
Malhi, N. S. 1391-1392, 9151
Malhi, S. S. 388
Malhotra, R. S. 6110, 8136, 8209-8210, 10529-10530, 10538
Malhotra, S. 564
Malhotra, S. K. 680
Malhotra, V. V. 1466
Mali, P. C. 12926
Maliga, P. 4296
Malik, B. A. 1742, 1756, 8229
Malík, F. 781
Malik, H. N. 7912
Malik, I. A. 5081
Malik, K. A. 12743
Malik, K. B. 6436
Malik, R. K. 8947, 9279
Malik, S. S. 510
Malik, T. 10531
Malik, Y. P. 9279
Malingré, T. M. 13390
Malinovskiĭ, V. I. 2076
Malithano, D. 1087
Maliwal, G. L. 239
Malkhandale, J. D. 5503
Mal'ko, A. M. 4683
Malla, G. 11067
Malla, S. B. 8711
Mallard, C. 4678
Mallavarapu, G. R. 13397
Malleshappa, C. 7999
Malley, Z. J. U. 1054
Mallick, R. 2217
Mallik, S. 1553, 3847
Mallory-Smith, C. A. 8060
Malmberg, R. L. 2355, 10936
Malnati, W. D. 8345
Malnoë, P. 3301, 10600
Malpezzi, G. 10753-10755
Mal'tsev, A. V. 10120
Malueg, K. R. 7517
Maluf, A. M. 12198
Malusà, E. 3140, 7274
Małuszyńska, E. 4800
Maluszyńska, J. 1151, 3195
Maluszyński, M. 1228
Malvar, R. 3998
Malvar, R. A. 11512
Malvolti, M. E. 9646
Malý, J. 209, 10143
Malychenko, L. 11138
Mamba, Z. I. 858
Mamedova, M. Ė. 1978
Mamluk, O. F. 3652, 7798, 7803, 7809
Man, S. D. 10722
Man, W. Q. 1702, 2873
Manaenkov, V. V. 4865
Manalo, J. 8014
Manara, N. T. F. 4829
Manara, W. 4829, 11740
Mancia, E. 2901
Manciot, R. 6376
Mandaci, S. 5042
Mandal, A. B. 2756, 10121
Mandal, A. R. 10550
Mandal, B. K. 1553, 3847
Mandal, N. 10689, 10712
Mandal, S. K. 2077
Mandaron, P. 2673
Mandeep Kaur 6802
Mandel, A. 13207
Mandel, M. A. 2682, 6489
Mandel, T. 9722
Mandelc, S. 7336
Mandhu Bajaj 2063
Mandolino, G. 4279, 13084
Maneephong, C. 11610
Maneepongse, C. 6985
Manen, J. F. 7157
Maness, N. O. 8409
Manev, M. 4671, 4711, 10117, 11339
Manfredi, P. 9382
Mang, K. Q. 5549
Mang, R. 631
Manga, V. 6687, 7985
Manga, V. K. 6008
Mangal, J. L. 9472
Manganaris, A. G. 4125
Mangat, B. K. 375, 1494, 1501, 1507, 12702
Mangat, G. S. 1538, 6873
Mangialardi, G. J., Jr. 5507
Mangin, B. 7664, 12428
Mangin, P. 4957
Mangold, U. 5661, 8733
Mangolin, C. A. 2216
Mangotra, R. 962
Manhart, J. R. 2324, 2398, 11256
Mani, T. 4901
Manibhushanrao, K. 4901
Maniei, A. 10749
Manion, P. D. 8608-8609
Manivel, L. 9712, 13194
Manjunath, A. 6358
Mankar, S. W. 4080
Man'ko, A. E. 2041
Manly, K. F. 12430
Mann, C. E. 2512
Mann, V. 7213
Manna, G. B. 4250
Manners, J. M. 1475
Manning, J. C. 4450
Manning, K. 13080
Mannini, F. 3160
Mannino, P. 5250
Mannonen, L. 5905, 13295
Mannschedel, A. 9507
Mannur, D. M. 10479
Manoharan, S. 5994
Manoharan, V. 12078
Manoj, P. S. 6336, 6338
Manonmani, S. 8025
Manos, P. S. 1632
Manoukas, A. G. 9686
Manríquez B., M. 1252
Mansfield, J. 3084
Mansfield, J. W. 12900
Mansfield, T. 8758
Mansha Ram 4186
Manshardt, R. 788
Mansilla, J. P. 11512
Mansky, L. M. 2312
Mansooji, A. M. 2647
Mansor Mohd Rashid 9792
Mansour, A. 5205
Mansour, F. 4658, 11511
Mansour, M. M. F. 11390
Mansur, L. 6121
Mansur, L. M. 2858-2859, 6142, 8157, 11713
Mansuria, C. A. 590
Mantell, S. H. 6545, 9490, 11852, 13220
Mantle, P. G. 9179
Mäntylä, E. 10029
Manuel, W. W. 11550
Manzanera, J. A. 2114, 10998
Manzano R., A. H. 5123
Manzer, F. E. 11798-11799
Manzo González, A. 767
Manzocchi, L. A. 12656
Mao, C. X. 7993, 8017
Mao, L. 12642
Mao, L. H. 10223
Mao, S. X. 3472
Mao, Y. L. 8895
Mapelli, S. 6267
Marais, E. M. 2195, 7500
Marais, G. F. 1637, 10138, 10151
Marais, J. P. 7026
Maraite, H. 2986, 3024
Marani, A. 11888
Marano, M. R. 4558
Marano, V. 5488
Maranville, J. W. 4694, 9175
Marasas, W. F. O. 10680
Marattukalam, J. G. 10987
Marbach, J. 9727, 10934
March, G. de 749
Marchais, L. 12700
Marchand, J. L. 348
Marchant, R. 11050
Marchetti, M. A. 1516, 8050, 10343
Marchezan, E. 420
Marchfelder, A. 10567, 11059
Marchis-Mouren, G. 5906
Marchoux, G. 3086-3087
Marcillac, G. de 1156, 3302
Marcker, K. A. 507, 10464

Marcos, J. F. 6670
Marcotrigiano, M. 4304
Marcotte, J. L. 3625
Marcotte, L. 7657
Marcum, K. B. 5627
Maréchal-Drouard, L. 1131, 9976, 11802
Marechkova, L. 9610
Mareck, J. H. 11507
Maredia, K. M. 9753
Marek, S. M. 11646
Mares, D. J. 3634, 6751, 10103, 11321, 12508, 12522
Maretzki, A. 3257
Marga, G. 3397
Margale, E. 13126
Marget, P. 6195
Margiotta, B. 1318, 7825
Margis-Pinheiro, M. 5986, 10504
Margolies, D. C. 2714
Mari, M. 11745
Mariam, B. G. 7685
Marian, O. 10438
Mariani, A. 1144, 2827, 9283
Mariani, C. 2066, 12141
Mariani, P. 692, 11008
Mariano, G. 13285
Marie, D. 6695, 8100
Marie, F. 4027
Marienfeld, J. R. 6888, 7886
Marigo, C. 1340
Mariković, R. 7340
Marín, M. L. 803
Marin, N. 6644
Marinescu, V. 12492
Marinho, P. 10047
Marinković, N. 707, 12901
Marinković, R. 7184, 7354, 9680
Marino, G. 742
Marinucci, R. 11974
Marinus, J. 9462
Marion, D. 8882
Mariot, E. J. 5027
Mariotti, D. 3111, 4316, 12948
Mariotti, J. A. 5409
Mariotti, M. 5137
Marivet, J. 5986, 10504
Marjanović, A. 7184
Mark, F. van der 2617, 3804
Markarov, A. M. 5095
Markham, K. R. 5632
Markmann-Mulisch, U. 4564
Marko, F. 4718
Markocic, M. 5272
Marks, M. D. 3510, 4592, 8816, 12415, 12419
Marks, R. W. 5822
Markwei, C. M. 11761
Markwell, J. 6090, 9307, 10241
Marmeisse, R. 6276
Marmey, P. 904, 8287, 10618
Marmiroli, N. 2305, 6841
Marner, F. J. 5661
Marney, M. M. 10980
Marocco, A. 9545, 11472
Maroof, M. A. S. 154, 1357, 2690, 7840, 8164, 11395, 12626
Maroquin, C. 10194
Marozaŭ, A. U. 11990
Marozov, O. V. 11990
Marquard, R. D. 1924
Marquardt, R. R. 12569
Marques, D. V. 12119
Marques, E. M. G. 8170
Marques, M. A. J. 7066
Marques, M. R. C. 1734
Márquez, A. J. 3670
Márquez Gutiérrez, C. 6859
Márquez Sánchez, A. R. 5006
Márquez-Sánchez, F. 1397, 5945, 6634
Marrakchi, M. 12811
Marras, G. F. 5489
Marrè, M. T. 2361
Marrero, A. 8441
Marriott, N. R. 9850
Marrison, J. L. 6478
Marrows, D. 3171
Marsal, J. I. 8359
Marsan, P. A. 2344, 4676, 7890
Marschner, H. 8913
Marsh, W. 9167
Marshall, D. F. 9915
Marshall, D. L. 1810, 11853
Marshall, D. R. 2279, 7070, 8189-8190
Marshall, D. S. 3667
Marshall, G. 12703
Marshall, H. G. 4787, 4793, 5699
Marshall, H. H. 11073-11074
Marshall, J. D. 5605, 12223
Marsolais, J. V. 3372
Marsolier, M. C. 6127
Marson, P. A. 11434
Marston, J. 3168
Martegani, E. 3715, 7889
Martelli, G. 4126
Martelli, G. P. 3182
Martelo, J. 5129
Martena, F. 6277
Mårtensson, A. 11753
Mårtensson, B. 4299
Marthaus, P. S. 651
Martienssen, R. 9054
Martín, A. 289, 4659, 11676, 12631
Martin, A. 7696
Martin, B. A. 5984, 10290
Martin, C. 1013, 1237, 4423, 4435-4436, 5986, 6240, 6579, 8429, 12261
Martin, C. P. 4298
Martin, C. R. 7109
Martin, D. J. 4786
Martin, D. L. 8083, 9859-9860
Martin, F. 12990
Martin, F. G. 9229
Martin, G. 506, 1843, 6128
Martin, G. B. 4075, 7216
Martin, G. C. 5396, 5399
Martin, J. 9895
Martin, J. M. 1317, 2834, 5918
Martín, J. V. 2046
Martín, L. M. 3597, 3927, 8869, 12631
Martín, L. R. 2017
Martin, M. 1785, 3505, 5773, 8815
Martín, M. C. 1819
Martin, M. T. 6719
Martin, M. W. 1796, 8273
Martin, P. 789, 5032
Martin, P. G. 8622
Martin, P. K. 11357
Martin, R. 275
Martin, R. A. 7833-7834
Martin, R. J. 10456
Martin, R. P. 6092
Martin, R. R. 11835
Martin, T. 6232, 12413
Martin, T. J. 3585
Martin, W. 308, 3562
Martín-Blanco, C. J. 8736
Martin-Eauclaire, M. F. 5906
Martín-Sánchez, J. A. 4746
Martin-Tanguy, J. 5443
Martineau, B. 3053, 12393
Martineau, D. 4472
Martinek, P. 10100
Martinelli, L. 13084
Martinenko, V. 5904
Martinetti, L. 2822, 2832
Martínez, A. 4923
Martínez, A. J. 2194
Martínez, C. P. 6043
Martinez, G. V. 8558
Martinez, J. 6271
Martínez, J. J. 11918
Martinez, L. 7954
Martínez, M. A. del P. 2194
Martínez, M. C. 9880, 10761
Martínez, M. J. 3433, 6930
Martínez, O. 9111
Martínez, R. 9399
Martínez de Ilarduya, O. M. 274
Martínez-Izquierdo, J. A. 3710
Martínez-Ramos, M. 979
Martínez-Rodríguez, A. I. 4021
Martínez-Zapater, C. 5201
Martínez-Zapater, J. M. 7637, 12409
Martinho, M. R. 5141
Martini, G. 1240, 5864
Martiniello, P. 2782
Martinis, D. de 5470
Martino, I. 8457
Martino-Catt, S. J. 667
Martins, A. L. M. 4283
Martins, F. P. 5259, 5307
Martins, L. A. 12872
Martins Filho, S. 7093-7094
Martinson, C. A. 5988, 11504
Márton, L. 82, 7619
Martonfi, P. 13386
Marty, I. 10047
Martyn, T. M. 1669
Martynov, O. L. 10213
Martynov, S. 2292
Marum, P. 454
Maruta, Y. 11754
Marutani, M. 2179
Maruyama, K. 417, 419, 11594
Marx, D. B. 7052
Mar'yakhina, I. Ya. 643, 12972
Marzabal, P. 12608
Marzi, V. 5490
Marziah, M. 853
Masár, Š. 4685
Masárová, K. 4685
Masarovičová, E. 4761
Mašátová, L. 6316
Mascarenhas, A. F. 2264, 4235, 9945
Mascarenhas, H. A. 9370
Mascarenhas, J. P. 1208, 2176, 3546, 3714, 11430, 12247
Mascó, E. de las M. 6056
Mashnenkov, A. S. 7896
Masikevich, Yu. G. 10268
Mašková, L. 5453
Masle, J. 6490
Maslin, B. R. 11004-11006
Maslova, M. A. 1316
Masłowski, J. 8886
Masnyĭ, M. N. 10268
Masojć, P. 2500, 11284
Mason, J. C. 13330
Mason, M. L. 9776
Masoni, A. 5137
Masood, A. 10296
Masood, M. S. 3586
Massar, J. E. 1567
Masseron, A. 5226-5227
Masson, J. 9976
Masson, P. 5965
Masson, P. H. 1155
Massonié, G. 13070
Mastebroek, H. D. 6850
Masters, J. C. 1223
Masterson, J. 7677
Masterson, R. 3499, 9997
Mastro, G. de 5490
Mastromauro, F. 3161
Mastrovito, F. 9556
Masuda, M. 7223
Masuda, T. 4179, 9563, 11381
Masuelli, R. 10571
Masumura, T. 9522, 10358
Masutani, T. 2026
Masyhudi, M. F. 1529, 1577, 4890
Masyitah, S. 5829
Matcham, S. E. 4503
Mate, C. J. 931
Mate, G. D. 5076
Matei, K. 10438
Mateĭkene, I. 6826
Mateikienė, I. 6826
Mathai, G. 6404
Mather, D. E. 95-96, 340, 2845, 5903, 7961, 12383
Mathern, J. 9011
Mathew, B. 994, 9885, 11082
Mathew, G. 6026
Mathew, J. 5200, 6374, 6402, 6404
Mathew, K. L. 9635
Mathew, K. M. 11102
Mathew, T. 6388, 6393
Mathews, A. 522, 9972
Mathews, C. 9115
Mathews, H. 12744
Mathews, S. 11200
Mathias, R. J. 837, 7653
Mathias, S. F. 918
Mathis, A. 8567
Mathodi, S. M. 7145
Mathre, D. E. 2834
Mathur, A. K. 4774
Mathur, H. C. 2549
Mathur, R. K. 4269
Mathur, V. L. 11690
Mathuresh Singh 8519
Matías, C. 12698
Matibiri, E. A. 13220
Matichuk, V. G. 10217
Matienco, B. 10724
Matienko, B. T. 10662
Matile, P. 10506, 11219
Matilla, A. 3975
Matin, M. A. 644
Matiz E., A. 5128, 5128
Matkovics, B. 4699, 4701
Matoh, T. 5459, 7067
Matos, C. S. 7278, 11968
Matos, V. P. 7412
Matsubara, S. 5194, 10615, 10629
Matsubayashi, Y. 11604
Matsuda, I. 8352
Matsuda, T. 5631, 5663
Matsuda, Y. 2629
Matsui, E. 8004, 11554, 11563
Matsui, H. 8012
Matsui, M. 3313
Matsukawa, I. 1771
Matsumara, H. 391
Matsumoto, R. 793, 8426-8427, 8446, 9597
Matsumoto, S. 2044, 12720
Matsumoto, T. 9534, 13082, 13217
Matsumura, T. 3925, 8352
Matsunaga, H. 4098, 10636
Matsunaga, K. 12760
Matsunaga, S. 12250
Matsunaga, W. 5459
Matsunami, R. 4472
Matsuno, H. 13327
Matsuno, R. 548, 7107
Matsuo, E. 10634
Matsuoka, H. 3781
Matsuoka, J. 10277
Matsuoka, K. 1147
Matsuoka, M. 393, 2011, 6497, 7479, 10273, 12674
Matsushima, N. 5680
Matsuta, N. 8412
Matsuzaki, T. 3313
Matsuzawa, T. 6259
Matsuzawa, Y. 3993
Matta, N. 6193, 11751
Mattern, P. J. 168
Matteucci, G. 5698
Matthews, B. F. 2853, 8808, 10056
Matthews, D. 7735
Matthews, J. M. 2647
Matthys-Rochon, E. 1144, 1211, 4825
Mattivi, F. 3161
Matúšová, R. 5581
Matuz, J. 10064
Matveeva, N. P. 2070, 5460
Matvienko, I. I. 161, 11283
Matvienko, M. A. 8184
Matyashuk, R. K. 10085
Matzinger, D. F. 9726
Matziris, D. 2138
Matzk, F. 7708
Matzke, A. J. M. 1132, 13213-13214
Matzke, M. 1132
Matzke, M. A. 13213-13214
Mau, S. L. 3282
Maucher, H. P. 11096
Maughan, P. J. 8164
Maule, A. J. 10527
Maupetit, P. 5976
Maurel, C. 909, 13203

Mauri, I. 3715, 7889
Maurice, A. 7879, 12428
Maurice, S. 3744, 12446
Mauro, M. C. 5290
Mauromicale, G. 11874
Maurya, D. M. 3846, 9208
Maurya, K. N. 11107
Mavrishcheva, E. B. 11338
Mawal, Y. R. 10359
Maxson, J. M. 4425
Maxted, N. 4996, 7060
Maxwell, B. D. 8061
Maxwell, C. A. 3913
Maxwell, J. 5104
May, B. 10402
May, G. D. 10465
May, K. W. 7849
May, O. L. 9746-9747
May, R. M. 2316
Mayer, C. D. 5327
Mayer, D. G. 1482, 7979
Mayer, J. E. 8123
Mayer, M. 2622
Mayer, M. S. 7125
Mayes, S. 13147
Mayhew, W. L. 9345
Mayland, H. F. 3935, 4925
Mayo, M. A. 4312, 12944
Mayo, O. 2381
Mayr, E. 2409
Mazan, Ī. F. 12192
Mazanec, R. A. 9776
Mazau, D. 2310
Mazepin, M. G. 5426
Mazer, S. J. 4420
Mazlumov, A. L. 5425
Mazullah Khan 12885
Mazur, B. J. 908
Mazurkiewicz, L. 10210
Mazza, G. 7013
Mazzafera, P. 5442
Mazzani, C. 8505
Mazzei, R. L. 5086
Mazzinelli, G. 6877
Mazzocchetti, A. 4652
Mazzola, M. 1606, 8047, 10388
Mazzuca, S. 7670
Mbata, G. N. 1243, 11781
Meade, T. 9526, 10649
Meagher, M. D. 2135
Meagher, R. L., Jr. 759
Meagher, T. R. 3144, 9870
Mebrahtu, T. 9378
Mechaev, A. P. 10114
Mechelke, W. 3269
Mechtler, K. 136
Medeiros, A. C. de S. 12285
Medhi, A. 4896
Medina, J. 1341
Medina Filho, H. P. 5179
Medina Morales, M. del C. 13117
Medrano, H. 2276, 3287, 5461, 6488, 9725
Meehan, L. J. 11216
Meeks-Wagner, D. R. 3408, 10054
Meeley, B. 7956
Meeley, R. B. 1467
Meer, A. van der 5723
Meer, I. M. van der 2198, 8553, 10574
Meer, Q. P. van der 13421
Meeta, M. 13349
Meghji, M. 2671
Megia, R. 4174
Meglic, V. 6289
Mehan, V. K. 10886
Meharg, A. A. 471, 12807
Mehdi, S. 7333
Mehdi, S. S. 1966-1968
Mehdy, M. C. 540, 6159
Meheriuk, M. 737, 744
Mehetre, S. S. 9422, 11701, 12854
Mehla, B. S. 9416
Mehlhorn, H. 9951
Mehlman, D. W. 6101
Mehmood, S. 439
Mehndiratta, P. D. 1483
Mehra, R. B. 8124
Mehrotra, B. 3514
Mehrotra, B. N. 11105
Mehta, A. K. 1304
Mehta, A. R. 7135, 7546, 8620
Mehta, A. Y. 10677
Mehta, H. 4993
Mehta, N. P. 4329, 5498
Mehta, P. M. 374
Mehta, S. L. 863, 1927
Mehtre, S. P. 3772
Mei, H. W. 3792, 10337, 11577
Mei, M. H. 1540
Meier, B. 9790
Meier, B. M. 5739
Meier, I. 6263, 11110
Meier, V. 1635
Meier-Dinkel, A. 13268
Meierhoff, K. 331
Meijden, E. van der 3404, 4434
Meijer, E. 1803
Meijer, E. P. M. de 6528
Meilleur, B. 788
Meinel, A. 8889
Meinhardt, F. 11178
Meinke, D. W. 3524, 3550, 5779, 12418
Meins, F. 3455
Meins, F., Jr. 3478, 5465, 9730
Meinzer, F. C. 8516
Meĭrmanov, G. T. 4945
Meister, A. 8165
Meixner, M. 10242
Mejaya, M. J. 3705, 7156
Mejía, C. 13067
Mejía-Jiménez, A. 11743
Mekhedov, S. L. 2583
Melan, M. A. 10026, 12407
Melaragno, J. E. 3514
Melcher, U. 2082
Melchers, L. S. 663, 5743, 5756, 8564
Melchinger, A. E. 3713, 9051, 10246, 11433, 11435, 11734-11735, 12379, 12648, 12652-12653
Melchior, G. H. 9768
Meldrājs, J. 5628
Melekhovets, Y. F. 1031
Melgar, J. 9369
Melia-Hancock, S. 7880, 7893
Melik-Sarkisov, O. S. 1789, 11823
Melillo, M. T. 2917
Melis, A. 4763
Melis, R. J. M. 1726
Meliyan, L. G. 11894
Melkonian, M. 312
Meller, Y. 2054
Mello, C. M. C. 12284
Mello, M. L. S. 5142
Mello-Silva, R. de 7473
Mel'nikov, A. F. 1256
Melo, D. F. de 10552
Melo, P. E. 1734
Melouk, H. A. 3247
Melz, G. 11382
Melzer, S. 8492
Melzheimer, V. 12292
Memar Zadeh, E. 5105
Memelink, J. 4291
Memon, A. R. 1052
Memon, K. S. 6221
Men', A. E. 8184
Men, S. 3796
Men, X. F. 5260
Mena, M. 2682, 4746
Menancio-Hautea, D. 8231
Ménard, M. 8606
Mendel, G. 2267
Mendel, R. R. 12412
Mendel-Hartvig, J. 7931
Mendes de Sousa, A. P. 9778
Mendlinger, S. 9561
Mendoza, H. A. 2977, 2999, 7165
Menéndez, J. 12777
Menezes Neto, J. 7412
Meng, F. Y. 6602
Meng, J. L. 8474
Meng, X. 728
Meng, X. Q. 9552
Meng, Z. L. 3316
Menges, E. S. 2395
Mengesha, M. H. 1748, 2922, 6413, 6637, 6722
Menghini, A. 7554
Mengistu, A. 10645
Menkir, A. 11518, 12690
Mennella, G. 697
Menon, N. 13392
Menon, R. 2231
Menon, T. C. M. 4741
Menon, U. 23
Mensah, J. K. 7141
Menssen, A. 5966
Mensuali-Sodi, A. 4356
Mentele, T. 9669
Menten, J. O. M. 3329
Menting, J. G. T. 4440
Menzi, M. 1400
Mepsted, R. 13149-13150
Merayo, A. 7989
Mercado, P. 11941
Merchán V., V. M. 13200
Mercuri, A. 3394
Meredith, C. P. 5286
Meredith, F. I. 745, 13077
Meredith, M. R. 12787
Meredith, S. A. 7981
Meredith, W. R., Jr. 9741, 9757, 10963
Mereghetti, M. 3719
Meremaa, L. 2342
Merendino, A. 9559
Merész, P. 8383, 8385
Merfort, I. 12293
Mergeai, G. 7411
Mérida, C. L. 9476
Mérida Silva, J. 11271
Merino, F. 703
Méritan, M. 7407
Merkelbach, S. 3996
Merker, A. 4004, 6754
Merkle, S. A. 980, 4357, 5620, 8618
Merkle, T. 5760, 12298
Merlin, G. 1061
Merlino, M. 12489
Merlo, D. J. 3725
Merlo, P. A. O. 3995
Merrett, M. J. 12814
Merriam, H. G. 2042, 7382, 10917
Merrick, L. C. 2845
Mersinkov, N. 10185
Mertz, E. T. 1438, 2254
Merwe, A. van der 12109
Merwe, L. P. van der 1990-1991
Merwe, P. J. A. van der 1990-1991
Merwin, I. A. 8388
Merzeau, D. 9785
Mes, T. H. M. 8728
Mescht, A. van der 2098, 5509, 9466
Meshram, L. D. 6512, 11899
Meshram, P. B. 12204
Meskinen, G. F. 9782
Meslin, B. R. 5556
Mesquida, J. 1940, 5001, 8167
Mesquita, A. L. 5576
Messéan, A. 7319, 7323, 7323
Messens, K. 1159
Messeri, C. 3458
Messiaen, C. M. 2668, 9500, 9514
Messing, J. 9089-9091, 9110, 10225, 10256, 10271
Messmer, M. M. 3713, 12490
Messner, B. 8639
Mesterházy, Á. 2448, 2533, 2537, 5893, 6782, 6793
Mestres, C. 6990, 11596
Mészáros, S. 8687
Metakovskiĭ, E. V. 2507, 4712, 6759, 7730
Metakovsky, E. V. 2507, 4712, 7730
Métayer, J. P. 5055
Méthy, M. 451
Métraux, J. P. 2075, 2266, 5742
Mett, V. 11682
Mettler, I. J. 5989
Metz, A. M. 184, 5856, 11202, 11309
Metz, B. 486
Metz, G. 9000
Metz, P. 11734
Meulen, R. M. van der 268, 11384
Meulen-Muisers, J. J. M. van der 5090
Meunier, J. 852, 3232, 6369
Mew, T. W. 2760, 2763, 8044-8047
Mey, G. A. van der 1665
Mey, J. A. M. van der 1665
Meybodi, M. 7718
Meyer, A. 4563
Meyer, C. 4295, 6481
Meyer, D. 6114
Meyer, F. 11080
Meyer, J. H. 13180
Meyer, K. 7631
Meyer, M. L. 9607
Meyer, M. M., Jr. 6571
Meyer, P. 50, 4563, 8700, 9881
Meyer, U. 3115
Meyer, W. A. 9856
Meyer, Y. 10047, 13303
Meyerowitz, E. M. 76, 3756, 7648, 11272
Meynet, J. 13346
Meza-Basso, L. 3002, 3005, 5353
Mezzetti, B. 2309, 3109, 3122, 4126-4127
Mgonja, M. A. 8026
Mheen, H. van der 12300
Mhlanga, L. 1103
Mi, W. G. 7255, 11950
Mia, M. W. 553
Miah, M. A. A. 6011
Mian, M. A. K. 553
Mian, M. A. R. 8893
Miannay, N. 749
Miao, G. H. 2870
Miao, G. Y. 10093, 12505
Miao, S. H. 330
Miao, Y. G. 6975
Miao, Y. N. 12860
Miao, Z. H. 965, 8806
Miau, R. H. 6724
Miazga, D. 8901
Miceli, P. 5491
Michael, A. H. 2155
Michael, T. 2052
Michaelis, A. 6825
Michaelis, G. 10907, 11177
Michaels, H. J. 2398, 2404
Michaels, S. D. 5780
Michaels, T. E. 12080-12081, 13159
Michalak, K. 5181
Michalakis, Y. 4602
Michalczuk, L. 150
Michalik, B. 3015
Michalski, T. 11468
Michaud, D. 6556, 8247
Michaud, M. 3184, 10049
Michaux-Ferrière, N. 1220, 6328, 13198
Michel, D. 7902, 8669, 9039
Michel, F. 3590
Michel, H. 2904
Michelesi, J. C. 5241
Micheli, L. de 5287
Michelini, L. A. 11448
Michelmore, R. 4044, 8313
Michelmore, R. W. 3051, 12981
Michelson, I. 11895
Michelutti, R. 2540
Michl, D. 7202
Michler, C. 8610
Michlovský, L. 3155
Michod, R. E. 6705
Michurina, T. G. 2652
Mičieta, K. 4999
Micke, A. 103, 1371, 6656
Mickelson, L. 6813
Middleton, E. M. 9366
Midgley, S. 9765

Midland, S. 1116
Midland, S. L. 10649
Miedaner, T. 295, 2655-2657, 2659, 6868-6869, 7873
Miedema, P. 7193, 9508-9509
Międzobrodzka, A. 5119
Mielke, E. A. 8394
Mielke, H. 3699, 10186
Migal', N. D. 3337
Miginiac, E. 4207, 5290
Migita, K. 4349
Miglioranza, E. 5385
Miguel, C. M. 9533
Miguens, F. C. 4597
Mih, A. M. 8221
Mihăilescu, A. 12595
Mihăilescu, F. 7065
Mihm, J. 351, 10304
Mihm, J. A. 9161
Mihova, S. 6799, 7829
Mii, M. 659, 5133, 5159, 6570
Mijatović, M. 707, 12901
Mijnsbrugge, K. van der 7436
Míka, V. 4915
Mikami, K. 932
Mikami, T. 4123, 4278, 9706-9707
Mikhaĭlov, M. É. 10243
Mikhaĭlova, E. I. 2652, 12645
Mikhova, S. 6799, 7829
Miki, B. L. 2326, 6508, 12033, 13202
Miki, N. 10629
Mikityuk, L. V. 2555
Mikkelsen, J. D. 2913, 9710
Mikkelsen, R. L. 11458
Miklas, P. N. 1729, 5007, 8182, 11748
Miklovičová, M. 10581-10582
Míková, K. 6316
Mikula, B. C. 7929
Mikulovich, T. P. 5212
Mikulski, W. 8995
Mil, R. van 11182
Milczak, M. 12776
Miles, D. 11462
Miles, N. W. 5261
Miletić, R. 7316, 9643
Milford, G. F. J. 4957, 6094
Milholland, R. D. 3152
Millan, S. 12322
Millán, T. 4409
Millar, C. I. 2264
Millar, J. G. 650, 10649
Miller, A. L. 12902
Miller, A. R. 3148
Miller, A. S. 10630
Miller, C. F. 9266
Miller, D. 10424, 12025
Miller, D. J. 1649-1651, 2644, 2823, 3908-3909
Miller, F. R. 2706, 2710, 3778, 6932, 6942-6944, 6950, 9174, 10306, 12692
Miller, H. 8971
Miller, H. I. 5380
Miller, J. 13421
Miller, J. C., Jr. 11793
Miller, J. D. 2639, 6443, 6449, 7963, 10193
Miller, J. S. 13290
Miller, L. 1843, 4490
Miller, N. 7234
Miller, P. 8384
Miller, R. E. 10414
Miller, R. M. 9963
Miller, S. 3910
Miller, S. S. 1380, 11657
Miller, T. E. 2472, 3601, 3695, 4754, 6763, 8870
Miller, W. B. 11667
Millhollon, E. P. 9750-9751, 10980, 12172
Milliano, W. A. J. de 2711, 9179
Milligan, B. G. 109
Millner, P. A. 9401
Mills, D. 6305, 13266
Mills, W. R. 12193
Milner, J. J. 12133
Milo, J. 10683
Milosević, T. M. 11967
Milotay, P. 11930, 11934
Milovanović, M. 10212
Milroy, S. P. 6827
Miltenyi, S. 11810
Milus, E. A. 7794, 8921, 10132
Min, J. 436
Min, S. K. 1508, 2748, 3842, 9205
Minakuchi, K. 10358
Minami, E. 400, 3816
Minami, M. 188, 3866
Minamikawa, T. 8224
Minaříková, V. 2627
Minchin, F. R. 124
Mincione, A. 11736
Mindrinos, M. 1167
Minelli, S. 7028
Minet, M. 10007
Ming, T. L. 11047
Ming, Z. H. 395
Mingochi, D. S. 9502
Mínguez, A. 670
Minhas, P. P. S. 747
Mini, P. 4020
Minke, V. 5790
Minnocci, A. 5395
Minobe, Y. 7693, 13032
Minocha, J. L. 1202, 1288-1289, 1572, 5859, 6000, 6987-6988
Minocha, S. C. 8542
Minoia, C. 4652
Minoo Divakaran 7550
Minor, H. C. 3952
Minot, J. C. 10715
Minsavage, G. V. 5184, 11963
Miralles, D. J. 10092
Miranda, A. 8918
Miranda, L. E. C. de 7948-7949, 9142
Miranda, L. T. de 7948-7949, 9142
Miranda, M. A. C. 9370
Miranda, P. 5016, 5071
Miranda Filho, J. B. de 334
Mircetich, S. M. 3121
Mirgorodskiĭ, S. V. 4744
Mirkes, K. A. 8943
Mirlohi, A. F. 7794
Mirosław, H. 12908
Mirza, M. J. 1566, 12742
Mirzawan, P. D. N. 3261, 13179
Míš, D. 10794
Misari, S. M. 4247
Misawa, N. 4315
Miséra, S. 8817, 10000, 12416, 12421
Misevičiūtė, A. 3103, 3143, 3147
Mishina, G. N. 2633, 4779
Mishler, B. D. 2398, 2405, 11256
Mishra, A. K. 785, 11107
Mishra, B. 7959
Mishra, H. O. 1042, 2222
Mishra, I. N. 4931
Mishra, L. K. 1588, 4229, 9690
Mishra, M. 3824
Mishra, N. K. 7990
Mishra, R. 3976
Mishra, R. K. 3638, 3988, 4706, 6204, 10108-10109, 10514
Mishra, R. S. 10693
Mishra, S. B. 9243
Mishra, S. N. 1379, 8973
Mishra, S. P. 1739
Mishra, U. S. 461
Misoo, S. 1763, 2071
Misra, A. 5418, 10895
Misra, A. K. 3843
Misra, A. N. 4876
Misra, H. O. 1041, 12288
Misra, J. B. 9468
Misra, L. N. 13387
Misra, L. P. 10324
Misra, U. S. 10324
Missaleva, N. 4477
Missinia, M. 2618
Mistele, M. 12652-12653
Mistrets, M. I. 10269
Mitchell, E. D., Jr. 2082
Mitchell, J. 2204
Mitchell, J. C. 1464
Mitchell, R. J. 2191
Mitchell-Olds, T. 4583, 5350
Mithen, R. 3206, 9667, 10848
Mithen, R. F. 6349, 6353
Mitich, L. W. 7533
Mitiku, D. 6761
Mitra, D. 9578
Mitrakos, K. 5397
Mitre, V. 10774
Mitrović, M. 8456
Mitsui, S. 10933
Mitsukawa, N. 9522
Mitsunaga, S. 3834
Mittal, R. K. 5059
Mittal, V. P. 375, 869, 2090
Mittempergher, L. 5553
Mitton, J. B. 1181, 11025
Mitykó, J. 662
Miura, H. 7780
Miura, Y. 8780, 9951
Miwa, N. 1020
Mix-Wagner, G. 9518
Miyadera, N. 8004, 8007, 10352, 10357, 11554, 11563, 11568-11570
Miyamoto, K. 11381
Miyamoto, Y. 8006, 10353
Miyao, A. 8005, 8008, 10354, 11564
Miyao, S. 5663
Miyasaka, S. C. 9491-9492
Miyashita, N. 7726
Miyashita, T. 9879
Miyaura, T. 9822
Miyazaki, A. 9198
Mizianty, M. 3874
Mizoguchi, T. 2352, 7620
Mizrahi, Y. 10823, 13000
Mizukami, H. 2218
Mizukami, Y. 12404
Mizuno, K. 1528
Mizutani, M. 1764, 5459
Mizutani, T. 6483
Mkamanga, G. Y. 1086, 1091
Mkhabela, M. 3706
Mkhonta, V. M. 858
Mladenov, N. 10069
Mlynárová, Ľ. 1778, 6525, 8543
M'nari, M. 8369
Mo, H. D. 9203, 10373
Mo, Y. 9882
Moalemi, M. 12906
Moat, M. 8290
Mobambo, K. N. 9618
Mocek, U. 5608
Mochizuki, K. 12725-12726
Mochizuki, T. 1555
Mockaitis, J. 3034
Moda-Cirino, V. 5016
Modi, G. 5398
Modiri, M. 5328
Modrusan, Z. 7642
Moehlenkamp, C. A. 3750
Moenne, A. 12931
Moentono, M. D. 1430
Moerman, M. 557
Moffatt, B. 8598
Mogensen, H. L. 1656, 2680, 3742
Mogollón de Lucena, N. 11043
Mohamad, S. 6904
Mohamand, A. S. 11336
Mohamed, A. A. 10309
Mohamed, A. I. 3963, 11716
Mohamed, H. H. 537
Mohamed, M. B. 6145
Mohamed, M. F. 1725, 3962
Mohamed-Yasseen, Y. 7195
Mohamedali, G. H. 9499
Mohamedien, S. E. A. 5206
Mohammad, D. 355, 359, 3615, 4221, 6004
Mohammad, S. 2692
Mohammad, T. 5872
Mohammad Ashraf 10369
Mohammed, J. 6808
Mohan, M. 7012
Mohan, M. L. 3028
Mohan, P. 2085
Mohan, S. K. 10272
Mohan Singh 7106, 9397
Mohanakumaran, N. 3431
Mohanasundaram, K. 11550
Mohanasundaram, M. 7420
Mohandas, C. 9931
Mohanty, B. D. 5847
Mohanty, D. C. 2230
Mohanty, K. K. 1568
Mohanty, P. 3453
Mohapatra, A. R. 3843
Mohapatra, S. S. 1123
Mohapatra, T. 826, 8476
Mohatkar, L. C. 889
Mohd. Shaib, J. 13378
Mohideen, M. K. 3432, 5163
Mohinder Singh 832, 9118
Mohler, I. 228
Mohod, V. K. 6513, 6955, 7415
Mohr, H. 4037, 7846, 12209
Mohr, M. 2532
Mohr, S. 10059
Moing, A. 5247
Moisan, A. 1156
Mojayad, F. 6363
Mojek, E. 12049
Mojtahedi, H. 6244
Mokgatle, O. S. 7145
Mol, J. 3413, 5759
Mol, J. N. M. 42, 1016, 2198, 4439, 9836, 12265, 13368
Mòl, R. 4825
Molchanov, M. I. 10114
Moldenhauer, K. A. K. 11549
Moldovan, O. 10774
Mole, S. 7684
Molema, E. 4638
Molenaar, P. C. M. 11233
Molero, J. 9878
Mølgaard, J. P. 3395
Mølgaard, P. 4002
Molina, A. 2884, 3479, 3668, 12478
Molina, F. I. 13407
Molina, G. I. 2972
Molina, J. P. 12952
Molina, M. C. 9065
Molina-Cano, J. L. 1366, 6833, 12618
Molina-Freaner, F. 3923, 10434
Molina-Galán, J. D. 10255
Moll, A. 10573
Moll, R. H. 11458
Molle, F. 8284
Mollema, C. 1864
Møller, A. P. 12447
Møller, B. L. 2430
Möller, M. 6067
Møller Nielsen, J. 3900
Möllers, C. 2956, 2995, 9456, 10839
Molloy, B. P. J. 3905
Molnar, S. 7743
Molnar, S. J. 3692, 12633
Molnár, Z. 4972
Molnár-Láng, M. 8885
Molnár-Perl, I. 8383
Moloney, M. M. 821, 8812
Molvray, M. 132
Momćilović, V. 2541
Momma, T. 9198, 11567
Momotani, E. 4113
Monaco, R. 5698
Monaco, T. J. 4102
Monaghan, F. V. 2267
Monaghan, J. M. 5885
Monakhos, G. F. 5153, 5178
Monasterio-Huelin, E. 3142, 13073
Monciardini, P. 2305
Mondal, M. 8449
Mondal, S. K. 3179, 10556
Mondal, S. N. 694
Monéger, F. 4233, 10857, 10859
Moneim, A. M. A. E. 9306
Monelli, V. L. 7948
Monestiez, P. 8066-8067

Monet, R. 4140, 5258, 5305, 6686, 9645, 13070
Monetti, A. 2345
Money, T. 11282
Monfredini, G. 2344, 7890, 11434
Monika 7194
Monin, J. 4397
Mönke, E. 2307
Monks, D. W. 7972
Monma, S. 4098
Monna, L. 8005, 10354, 11564
Monnat, R. J., Jr. 9978
Monneveux, P. 3635, 7790
Monod, V. 6534
Monotti, M. 12056
Monroy, A. F. 477
Monsalve-Gonzalez, A. 12528
Monsen, S. B. 12797
Monsion, M. 3310, 10947
Montagnon, C. 4282, 10919, 12120
Montagu, M. van 661, 3513, 3526, 3528, 4313, 4597, 5538, 5788, 6209, 6281, 6479, 6495, 7436, 8541, 8782, 9951, 10006, 10017, 11222, 11237, 12130, 12135, 12152, 12757
Montané, M. H. 3211
Montavon, P. 12786
Montealegre M., C. M. 8181
Monteiro, A. A. 3044, 11865
Monteleone, P. 7270-7271
Montes, L. 1671, 6056, 12338
Montes, S. 2046, 13067
Montes-R., C. 7102
Monteuuis, O. 13315
Monteverde, E. E. 4181
Monteverde-Penso, E. J. 13164
Montgomery, J. 672
Monti, L. 6194
Monti, L. M. 1783, 3980, 5864, 11736
Monti, M. C. 9470
Monticelli, E. 3165
Monties, B. 12681
Montminy, W. 10459-10462
Montoliu, L. 3710
Montoya, J. 8927
Montoya C., L. 9328
Monyo, E. S. 377
Moock, J. L. 9385, 9448
Moody, D. B. 2513
Moody, M. E. 2379
Moon, T. Y. 1667
Moonan, F. 143
Mooney, H. A. 13226
Moór, A. 13024
Moore, A. J. 10471
Moore, D. L. 12640
Moore, G. 3574, 7693, 7729, 11282
Moore, J. N. 4143, 5720, 8404, 8417, 8425, 10762-10763, 13083
Moore, K. 8976
Moore, K. B. 10253
Moore, K. G. 8442, 9615, 10801
Moore, P. J. 10471
Moore, P. P. 4146, 5265, 11986-11987
Moore, S. H. 9758, 10475
Moore, T. H. M. 8222
Moorthy, B. T. S. 3844
Mor, Y. 3399, 3401, 3403
Mora, J. 4514
Mora, M. S. 3085
Mora, T. de 3956
Morabito, D. 13266
Moraes, C. O. C. 7038
Morais, A. R. de 11700
Morais, O. P. 7005-7006
Moralejo, M. 6833
Morales, A. 12953
Morales, D. 10675
Morales, F. 7854
Morales, H. 7104
Morales, M. R. 8742
Morales-Hernández, J. A. 6914
Morales Varela, M. A. 756
Moran, G. F. 9936
Moran, J. R. 13329
Moran, N. A. 6713
Moraru, K. V. 2503
Mörchen, M. 5433
Mordechi, S. 9479
Mordhorst, A. P. 3680, 9854
More, T. A. 11904, 11907, 11909
Moreau, E. 5800
Moreira, C. T. 4983
Moreira, J. C. S. 4674
Morel, J. L. 4046
Morelle, C. 6668
Morelock, T. E. 10648
Moreno, H. 9119
Moreno, J. 5968
Moreno, M. 8953, 12478
Moreno, M. T. 531, 3927, 3955-3956, 6154
Moreno, R. 5129
Moreno, V. 11903
Moreno-González, J. 5, 92, 1458, 2371, 11464
Moretto, K. C. K. 3074
Morgado, H. S. 8345
Morgan, A. 3052, 4426, 8680
Morgan, C. G. T. 3126
Morgan, D. 2398
Morgan, D. R. 3350, 3398
Morgan, E. R. 9869
Morgan, J. A. 1327, 2487
Morgan, M. T. 4626, 6688, 6702
Morgan, P. W. 12692
Morgan, R. 1028, 13052
Morgan, W. G. 12787
Morgan, W. M. 5806
Morgante, M. 4365, 9603
Morgens, P. 4140
Morgens, P. H. 4141, 9588, 13068
Morgham, A. T. 2569
Morgner, M. 9667
Morgun, V. V. 10085
Morgunov, A. 8927
Mori, H. 1860, 9440, 9536, 9562
Mori, M. 1774
Mori, N. 3594, 3663, 7726, 12566
Mori, S. 6712, 6821, 12592, 13224
Mori, S. A. 7464
Moriarty, G. 11902
Morice, J. 1940
Morigasaki, S. 1811
Morikawa, H. 8228
Morillo, F. 7962
Morin, G. 5001, 8167
Morishige, D. T. 2601, 8185
Morishima, H. 1590
Morisset, C. 2203
Morita, N. 9920
Morita, O. 10277
Moritz, T. 4366
Moriwaki, T. 3049
Moriya, I. 3679
Morjane, H. 570, 5066
Morlais, J. Y. 6772
Morley, T. 5571, 7455
Mornhinweg, D. W. 6856, 8971
Moro, G. L. 511
Mórocz, S. 5955
Morot-Gaudry, J. F. 6491
Morozova, A. V. 3611
Morpurgo, R. 12009
Morrall, R. A. A. 3208
Morrill, W. L. 11371
Morris, A. 272
Morris, C. F. 3654, 12518
Morris, J. R. 8425, 13083
Morris, M. L. 8876
Morris, M. W. 9900
Morris, P. 1675, 8121
Morris, P. C. 2353, 5770, 7630, 12413
Morrish, F. 5957
Morrison, I. 8255
Morrison, I. N. 2719-2720
Morrison, L. A. 7781
Morrison, M. J. 6508
Morrison, R. H. 10645
Morrison, R. J. 180, 850, 8877
Morrison, T. A. 9487
Morrone, O. 470, 1646, 3904, 4936, 6616, 11533
Morse, D. 8243, 11815
Morse, S. 260
Mortazavi, A. 2944
Morte, M. A. 9831
Mortensen, L. M. 4411, 12241
Mortimer, A. M. 10412
Morton, B. R. 157, 11257, 12390
Morton, J. K. 2165
Morton, R. L. 2907
Morton, S. J. 5627
Mortreuil, J. C. 12076
Morzhina, E. V. 5056
Moś, M. 12803
Mosaad, M. G. 8945
Moschini, E. 5864
Moscone, E. A. 1234
Mosconi, C. 5864, 6210
Moseley, C. 2877
Mosenthin, R. 8168
Moser, H. 7865
Moser, H. S. 3691, 11400
Mosğoller, W. 4628
Mosimann, E. 4949, 6727, 11622
Mösinger, E. 8797
Mosjidis, J. A. 3934, 4965
Moskova-Simeonova, D. 10670
Mosli, M. N. 4244
Mosqueda, G. 5037
Mosqueda-Cano, G. 3290
Moss, H. 1093, 9263
Moss, J. P. 1747, 13162
Mossop, R. 13354
Mostafa, M. G. 7870
Mostafavi, M. 10749
Mote, U. N. 9180, 9426
Motes, J. 7205
Motomura, K. 1545-1546
Motoyoshi, F. 8351-8352
Motte, P. 8697
Motto, M. 55, 1460, 2344, 3715, 5971, 6877, 6918, 7889-7891, 7902, 9039, 11434
Motzo, R. 5166
Mou, B. 6484, 11328-11329
Mou, S. Y. 1872
Moualla, M. Y. 7776
Moughan, P. J. 5506
Moukha, S. M. 1064
Mouloungou, J. 12017
Mount, D. W. 6675
Moura, I. 5659
Moura-Costa, P. H. 6545, 9490, 11852
Mourad, G. 7656, 10018
Mouras, A. 2174, 10088
Mouris, J. R. 4451
Mouritzen, P. 10175
Moussatos, V. 8347
Moustafa, S. E. S. 10684
Moustakas, M. 11356
Moutounet, M. 7293
Mouwen, J. M. V. M. 5012-5013
Mouzeyar, S. 10866
Mowry, T. M. 10149
Moya, C. 12993
Moya, P. 12480
Moyano, E. 4435
Moyer, J. W. 12248
Moyne, A. L. 5624
Mozingo, R. W. 3245, 9687
Mozo, T. 9453
Mozsar, J. 13087
Mózsik, I. 2533
Mozzon, M. 10874
Mpande, E. K. 9502
M'Ribu, H. K. 11531
Mridula Bargale 589, 5005
Mroczyk, W. 8983
Mrva, K. 12522
Mtambo, P. J. 1623
Mu, J. H. 11077, 12262
Mubumbila, M. V. 8171
Mucci, F. 2511
Mucciarelli, M. 6614
Muceniece, G. 3397
Muchow, R. C. 1477-1479, 11277
Muehlbauer, F. J. 6105, 8131, 8138, 9409, 11767
Mueller, L. D. 2379
Mueller, W. C. 13246
Mueller-Dombois, D. 7454
Mueller-Harvey, I. 364
Muench, D. G. 6842, 8058
Muenchrath, D. A. 5980
Mughini, G. 5525
Mugniéry, D. 3011
Mugnozza, G. E. S. 5698
Mugnozza, G. T. S. 2994
Muhammad, D. 5935, 12639
Muhammad, F. 4811, 4830
Muhammad Akbar 10369
Muhammad Banaras 6619
Muhammad Saleem 4830
Muhammad Salim 10369
Muhammad Tariq 10860
Muhedaer, Q. 489
Mühlbach, H. P. 8326
Muhlmann, M. D. 2475
Muhs, H. J. 2264
Muhyi, R. I. 8363
Muimba-Kankolongo, A. 3022
Mujahid, M. Y. 3586
Mujeeb-Kazi, A. 193-194, 3607, 4689, 6749, 7707, 7755, 7826, 10140, 12495, 12558
Mújica-Jiménez, C. 10255
Mukai, Y. 1282, 1336, 2466, 6748, 7475, 8004, 8007, 10357, 11554, 11563, 11568
Muker, H. S. 1538
Mukesh Jain 9691
Mukherjee, B. B. 8449
Mukherjee, B. K. 6907
Mukherjee, I. 8498
Mukherjee, S. 978, 11652
Mukhina, L. N. 5271
Mukhopadhyay, A. 630, 4215, 10841
Mukhopadhyay, K. 10883
Mukhopadhyay, M. J. 1048
Mukhopadhyay, S. 1048, 1732, 10651, 12985, 12987
Mukhopadhyaya, A. 6768
Mukred, A. W. 6722
Mukumoto, F. 3501
Mulay, A. J. 5887
Mulcahy, D. L. 1236, 2181, 2269, 8678
Mulcahy, G. B. 2269
Muleo, R. 8433
Mulinacci, N. 5288
Mulitze, D. K. 5855
Muliyar, M. K. 6381
Mulla, D. J. 3460
Mullen, J. A. 10307
Müller, A. 4762, 12412
Müller, A. J. 12416, 12421
Müller, B. 6232
Müller, E. 2501, 6502
Müller, G. 2532
Müller, J. J. V. 652
Müller, K. J. 12585
Müller, M. 5838, 9676
Müller, P. 12026
Muller, P. 13203
Müller, T. von 7474
Müller, Y. 13401
Müller-Röber, B. 4577, 10566, 11190
Müller-Starck, G. 3343, 13269
Mullet, J. E. 1140, 5768, 5914, 7845, 8153, 10172, 10465, 11376-11377
Mulligan, B. J. 958, 5805, 7636
Mulligan, R. M. 314, 3492
Mullin, B. C. 4361
Mullin, W. J. 11826
Mullineaux, P. 9951, 9951, 9984

Mullineaux, P. M. 6173, 6183, 6189, 6742, 8783
Mullins, C. A. 6295
Mullins, G. L. 2096
Mullins, M. G. 7506, 9621
Mullins, R. T. 3264, 4271
Müllner, H. 10058
Mully, T. W. 926
Mulongoy, K. 12334
Mulrooney, D. 8968
Mulrooney, D. M. 10164
Multani, D. S. 8016, 8057
Mulugeta, D. 3869
Mumm, R. H. 11438-11439
Mumma, R. O. 4406
Mummad Saleem 4811
Munck, L. 20
Mündel, H. H. 850, 2900
Mundstock, E. 8151
Mundt, C. C. 256, 10188
Mundy, J. 155, 6500
Munger, H. M. 11902, 11910, 13031, 13421
Mungomery, V. E. 2411
Muniswamy, B. 6469
Munk, L. 4550, 4775-4776, 6851
Munns, R. 3445
Muñoz, C. 11743
Muñoz, D. 11547
Muñoz, F. 1456
Muñoz, J. 6362
Muñoz Betancourt, D. 404
Muñoz-Clares, R. A. 10255
Muñoz-Collazos, S. 9940
Muñoz O., A. 2893
Muñoz Orozco, A. 6765
Muñoz Rodríguez, A. 10437
Muñoz Rodríguez, A. F. 8116, 9299
Muñoz S., C. 1902
Muñoz-Schick, M. 7472
Munro, C. A. 12487
Munro, I. K. 3018
Munro, L. M. 5845
Munshi, A. 4474
Munshi, A. M. 2240, 11106
Munshi Singh 4317, 4324, 4341, 5500, 7418
Müntz, K. 4199, 12412
Munzert, M. 2958, 10586
Muona, O. 12434
Muppidathi, N. 5998
Muradov, A. 290
Muradov, A. Z. 1788, 5100
Murai, K. 2461, 2530, 12566
Murai, N. 546, 7107, 8172
Murakami, K. 5194, 10615, 11088
Murakami, T. 4305, 6225, 6497
Murakoshi, I. 647, 10699
Muralidharan, E. M. 2264
Muralitharan, M. S. 7286
Muramatsu, M. 4688, 4926, 5866
Murariu, M. 6897
Murata, H. 793
Murata, M. 1383, 4362
Murata, N. 3442
Murata, T. 12956
Muratalla Lúa, A. 767-768
Murawski, D. A. 4463, 8614
Murayama, S. 1545
Murayama, Y. 5444
Murelli, C. 9685
Muren, R. 9517
Murfet, I. C. 6181, 8192, 12895
Murfett, J. 3282, 6484
Murigneux, A. 7907
Murillo, J. 1116
Murillo, M. 12411
Murillo Gamboa, O. 9797
Murín, A. 7498
Murín, G. 5000
Murison, S. D. 6346
Murphy, C. F. 10156-10157, 10200
Murphy, D. J. 4213, 4570, 5709, 6339-6340, 6348, 10836, 13121
Murphy, D. P. L. 5882
Murphy, G. 3574
Murphy, G. J. P. 5774, 8696
Murphy, J. 6286
Murphy, J. A. 11052
Murphy, J. B. 4143
Murphy, J. F. 8362, 10946
Murphy, J. M. 3711
Murphy, J. P. 3689, 4254, 5929, 5932, 10131, 10156-10157, 10200
Murphy, L. A. 13136
Murphy, T. M. 4298
Murray, B. G. 12258, 13353, 13369
Murray, D. S. 6524
Murray, F. 8483
Murray, G. M. 7590, 8111, 12818
Murray, J. W. 13331
Murray, M. G. 5958
Murrell, Z. E. 982
Murry, L. E. 5989
Murthy, B. K. 1767
Murthy, B. N. S. 4155
Murthy, H. N. 6432
Murthy, K. R. K. 8055
Murthy, N. 1569, 6039, 10367
Murthy, P. S. N. 8055
Murthy, T. G. K. 3238, 9950
Murthy, U. R. 6926
Murthy, V. V. A. 12041
Murty, B. K. 10555
Murty, B. R. 1502, 6001
Murty, K. S. 2750
Murty, U. R. 6923, 9172
Murugesan, S. 2171
Musa, Y. 12153
Musacchi, D. 5278
Muschietti, J. 13001
Musgrave, M. E. 9671
Mushita, A. 2285
Mushita, A. T. 5715
Mushonga, J. N. 6009, 9193
Musil, M. 2916
Muška, J. 3119
Musker, R. 11228
Musket, T. 12662
Muslimuddin, M. 11766
Mussio, I. 10626
Musso, O. 11979
Mustafa, A. M. I. 1264
Mustafa, S. Z. 3586
Mustyatsa, S. I. 4808, 10269
Muszyński, A. 12848-12849, 12858
Muthukrishnan, K. 6451
Muthukrishnan, S. 6922, 7695, 7856
Muthusamy, S. 2223
Muthuswamy, S. 4476
Mutinda, C. M. 9166
Mutschler, M. A. 2369, 9554, 11884
Mutters, R. G. 8220
Muuse, B. 12300
Muyolo, G. 3022
Muyotcha, A. 7366
Muzac-Tucker, I. 7182
Mwalukasa, E. H. 1054
Mwandemele, O. D. 5716
Mwanza, E. J. M. 11021
Mwesigwa, D. 12876
Myaskikova, E. M. 4556
Mydin, K. K. 10987, 12178
Myers, A. M. 9085
Myers, L. D. 2565
Myrholm, C. L. 3360
Myslivečkova, J. 11988
Mytton, L. R. 501
N. A. Chislett & Company 3172
Nable, R. O. 1322
Nachiappan, R. 5422
Nachit, M. M. 6766
Nachmias, A. 9479, 10593
Nacken, W. 910, 6581
Nadaf, H. L. 7365
Nadaf, S. K. 1559, 7365, 10368, 10479
Nadarajan, N. 1541, 1563-1564, 2095, 5504, 10365
Nadeau, J. A. 3421
Nadeau, P. 8104, 9288, 10407
Nadeem, M. A. 13177
Nadgauda, R. S. 9945
Nadot, S. 12781
Nadre, N. R. 4332
Nadulski, R. 4971, 5002
Nadzhar, M. A. 11337
Naeem, H. A. 7333
Naeem, M. 1920
Naeem Mahmood 11346
Nafziger, E. D. 8893
Nag, A. 574
Nagabhushanam, G. V. S. 1982, 4252, 4255
Nagai, C. 3257
Nagai, H. 5179, 6273
Nagai, M. 8317, 12983
Nagai, N. 9719
Nagaich, B. B. 8280, 9477, 10605
Nagamine, T. 9218, 12749
Nagamura, Y. 7693, 8006, 10353, 11558, 11571
Nagano, Y. 546, 548, 7107
Naganowska, B. 3895-3896, 11634
Nagao, H. 13028
Nagao, M. A. 3185
Nagao, R. T. 6112
Nagaoka, M. 9481
Nagar, N. 7135
Nagarajan, M. 11583
Nagarajan, N. 237
Nagarajan, P. 11774
Nagarajan, S. 213, 2439, 7814
Nagaraju, A. J. 9681
Nagarathna, K. C. 6007
Nagarkar, R. D. 10976
Nagasaki, H. 8004, 11554, 11563
Nagasawa, N. 12760
Nagasawa, T. 2874
Nagata, K. 8426-8427, 9597
Nagata, M. 4926
Nagata, N. M. 8693
Nagata, R. 653, 7173
Nagata, R. T. 9528
Nagata, T. 5447, 7394, 9488
Nagatani, A. 4061, 7645, 10023, 13224
Nagato, Y. 12134, 12760
Nagda, A. K. 11690
Nagel, J. 4920, 8073, 12786
Nagesh Sardesai 6638
Nageshwar, G. 9851
Nagi, K. S. 283
Nagle, M. 1795
Nagmani, R. 5588
Nagpala, P. 4549
Nagrajan, S. 11832
Nagy, A. H. 8899
Nagy, B. 474
Nagy, F. 4762, 5456, 5858, 5868, 9730, 11109, 13205
Nagy, I. 662
Nagy, J. 12882
Nagy, R. 1144
Nagylaki, T. 4609, 11231
Nahar, K. 7870
Nahar, S. 694
Nahid, M. 1374
Naïbo, B. 11502
Naidu, M. M. 6469
Naidu, M. R. 7345
Naidu, N. V. 591, 3989
Naidu, R. 6608
Naidu, V. D. 3851
Na'iem, M. 5583
Naik, G. R. 10899
Naik, P. R. 12085
Naik, P. S. 10584
Naik, R. M. 3774
Naik, S. 11773
Nainawatee, H. S. 11351
Nainwal, N. C. 6270, 6333
Nair, A. S. 637, 1580
Nair, C. K. K. 3554
Nair, G. K. B. 6385
Nair, G. M. 6385, 13383, 13391
Nair, G. S. 2231
Nair, H. 3421
Nair, K. C. 4894
Nair, M. K. 6368, 9931
Nair, P. C. S. 6320
Nair, P. G. 1580
Nair, P. N. C. 9924
Nair, R. R. 6400, 9925
Nair, S. 7012
Nair, S. G. 1814
Nair, S. S. 6371
Nair, T. V. R. 7852
Nair, V. G. 12178
Nair, V. R. 6385
Naithani, H. B. 5678
Naito, S. 7640, 8147
Naito, T. 505
Najar, M. 6540
Najar, M. A. 11337
Nakagahra, M. 12749
Nakagawa, H. 365-366, 464, 3781, 9184, 9536, 10317
Nakagawa, K. 2484
Nakahara, K. 5680
Nakai, H. 10381
Nakajima, K. 365-366, 1431, 3610, 8731, 11101, 13033
Nakajima, Y. 1914
Nakajo, S. 1672, 12730
Nakamura, A. 3830, 13217
Nakamura, C. 2530, 3594, 12566
Nakamura, H. 2504, 7726, 12549
Nakamura, I. 10381
Nakamura, K. 1147, 9484, 11850, 12092, 12732, 12961
Nakamura, M. 932, 2458, 4449, 9884
Nakamura, S. 4449
Nakamura, T. 1297, 2483, 3633, 5583
Nakamura, Y. 9626, 10805
Nakanishi, H. 6821, 12592
Nakanishi, T. 1144, 4179, 10738
Nakano, M. 6570
Nakashima, H. 8129
Nakasone, S. 3816
Nakasu, B. H. 7261
Nakata, G. 4349
Nakata, M. 8228
Nakata, N. 1383, 2465
Nakatani, M. 9485
Nakatsuji, R. 4926
Nakayama, F. S. 12100
Nakayama, M. 3306, 10951
Nakayama, T. 1276
Nakazono, M. 6018, 11573
Naku, M. 9618
Nalawadi, U. G. 6569
Nalbant, D. 1052
Nalborczyk, E. 11683
Nalini, P. V. 9655
Nalini, R. 8988-8989
Nalwadi, U. G. 9656
Nam, H. G. 1934, 7622, 7658
Nam, J. H. 1356
Nam Prakash 1502
Namai, H. 1944, 3993, 9664
Namba, R. 4449
Nambiar, I. P. S. 6400
Nambiar, P. K. N. 6396
Nambiar, S. S. 6408
Nambisan, K. M. P. 1721, 7259
Namkoong, G. 7433, 7669, 9767
Nampoothiri, K. U. K. 6368
Namuco, O. S. 1599
Namuth, D. 6813
Namuth, D. M. 1348
Nan, Z. H. 10346
Nanadanwankar, K. G. 5995
Nanawati, G. C. 12098
Nance, W. L. 8632, 13271, 13307
Nanda, H. C. 2880
Nanda, J. S. 1522
Nanda, K. 1055
Nandagopal, V. 3251
Nandan, R. 1758
Nandanwar, R. S. 11899
Nandekar, D. N. 5098, 5106

Nandi, A. 3958, 10507
Nandwal, A. S. 4223
Nandy, H. 6334
Nanjan, K. 616
Nanjundiah, V. 8849
Nantakit, A. 6225
Nap, J. P. 1778, 6525, 8543, 11195
Naphade, S. D. 10546
Napier, J. A. 12124
Napitupulu, L. A. 2047, 6471
Napola, J. 7564
Napoli, C. 8680
Naqvi, S. M. S. 1052
Narain, P. 8844
Naranjo, C. A. 1642, 9061-9064, 12296
Narasimhalu, P. 11385
Narasimhan, M. L. 3430, 3475, 12137, 13234
Narasimhulu, S. B. 1956, 8476, 13127
Narasimman, P. 8025
Narasimman, R. 4891
Narayan, R. K. J. 6098
Narayana, M. R. 13397
Narayanan, A. 7148
Narayanan, C. S. 13392
Narayanan, K. K. 11572
Narayanan, K. N. 1526
Narayanan, S. S. 6511, 6514
Nard, M. le 4447
Narendra Gupta 780
Narinder Kaur 7133
Naritoom, K. 8514
Narkhede, B. N. 4326, 6519, 10867
Narkhede, M. N. 6428, 9692
Narsinghani, V. G. 3969, 5041
Naruhashi, N. 761, 2178
Narváez-Vásquez, J. 6265
Nascimento Filho, F. J. do 7311, 13111
Nash, C. 9407
Nash, J. 11461
Nashaat, N. I. 10852
Nasiruddin, M. 6011
Nasr, F. 10007
Nasrallah, J. B. 1946, 2262, 4029, 6343, 7327
Nasrallah, M. E. 1946, 2262, 4029, 6343, 7327
Nass, H. G. 178
Nass, L. L. 11269
Nassar, N. M. A. 1804-1805
Nassar, R. 7584
Nasser, S. M. 7476
Nasser, W. 5986
Năstase, V. 6891
Nasuda, S. 1320
Nasution, R. E. 10800
Natali, L. 3427
Natarajan, N. 5745
Natarajan, S. 7230, 11889-11890, 12429
Natarajarathinam, N. 7150
Nath, P. 574, 5220
Nath, R. 1882, 4995
Nati, D. 11974
Natsuga, M. 1301
Naujoks, G. 12183
Nault, L. R. 9160
Naumova, T. 9247
Nautiyal, P. C. 4256, 4262
Nava, F. A. 13174
Navakodi, K. 7148
Navale, P. A. 3787, 3789
Navarre, D. A. 12640
Navarrete, M. H. 7191
Navarro, A. 6954
Navarro, R. A. 10156-10157, 10200
Navarro-Alvarez, W. 10087, 10112
Navas, R. 9483
Navazio, J. P. 7241
Nave, A. 1137
Naveen Chandra 10843
Navi, S. S. 6947
Navidi, W. C. 1224
Navot, N. 9553, 11895
Navushchanov, S. 2631
Nawale, R. N. 9426
Nawata, E. 1854
Nawaz, S. M. 4335-4336
Nawracała, J. 12836, 12848-12849, 12858
Nawrot, J. 11368
Nayar, N. K. 9486
Nayar, S. K. 252-253, 2439, 7813, 7816
Nayar, T. V. R. 10620
Nayeem, K. A. 211, 2521
Naylor, R. E. L. 5845, 12735
Nazeer, M. A. 10987, 12177
Nazeer Ahmed 4079
Nazeri, S. 5328
NBRI Newsletter 996
N'Cho, Y. P. 6383, 12071, 13154
Ndiaye, I. 1061
Ndiaye, M. 3982
Ndunguru, B. J. 865-866
Ndzana, X. 9353
Neal, J. W., Jr. 937
Neale, D. B. 12210-12211
Nebreda, I. M. 9348
Nechols. J. R. 3095
Neckermann, K. 309, 10231, 12468
Nedělník, J. 7059
Nee, S. 12457
Neelam Khetarpaul 12896
Neelam Sharma 7544
Neelima Ratti 5515
Neergaard, E. de 2913, 7857, 10711
Neeta Singh 13240
Nef-Campa, C. 7221
Nefedov, A. V. 1300
Negi, M. S. 9694
Negi, S. S. 775
Negre, P. 3111
Negrel, J. 2073
Negri, D. 10175
Negri, P. 2387
Negrín Sosa, L. 9921
Negru, S. 9387
Negrutiu, I. 2174
Nehra, N. S. 4678
Nehra, S. S. 10973
Nei, M. 8831, 12455
Neill, S. 8821
Neill, S. W. 12171
Neininger, A. 4037, 12209
Neish, G. A. 11073
Nejad, Z. H. 5499
Nekrasov, V. I. 4537
Nekrošas, S. 2794
Nelke, M. 3922
Nelsen, T. C. 1444
Nelson, A. J. 11608
Nelson, B. D. 1729
Nelson, B. V. 1857, 4032
Nelson, C. D. 8632, 13307
Nelson, D. 8674, 11167, 12621
Nelson, D. E. 5450
Nelson, G. 2113
Nelson, G. A. 1776, 10595
Nelson, K. E. 2538
Nelson, L. A. 168, 963, 10075
Nelson, L. R. 3667
Nelson, M. L. 10178
Nelson, O. E. 10245
Nelson, O. E., Jr. 1403, 7895, 9096
Nelson, R. 2727, 3858, 10388
Nelson, R. J. 3856, 7002, 12768
Nelson, R. S. 3307
Nelson, S. C. 12091
Nelson, T. M. 1421, 12672-12673
Nema, D. P. 3624
Nematullah 6755
Nembrini, L. 1460
Němcová, A. 10794
Němcová, M. 7115
Németh, G. 12942
Németh, L. 3273
Nemoto, H. 3833, 12761
Nemoto, Y. 7394
Nemson, J. A. 4763
Nene, Y. L. 3978, 10539, 10546
Nepi, M. 10702
Nerd, A. 10823
Nerkar, Y. S. 422, 1889, 3977, 4238, 6213, 6292, 6364, 9225, 10374, 10713, 10869
Nervo, G. 706, 10695
Nes, M. van 10654
Nesbitt, H. J. 3796
Neshev, G. 10682
Nešković, M. 6054
Nesme, X. 8606
NeSmith, D. S. 10703-10704
Nessler, C. L. 3425, 7601
Nester, E. W. 2262, 2670, 8800
Nesumi, H. 8445
Netherlands, Centrum voor Plantenveredelingse en Reproduktieonderzoek 5686
Netherlands, Open Universiteit 6633
Netsvetaev, V. P. 1360-1362, 8963
Nettancourt, D. de 114
Nettevich, E. D. 6846-6847
Neuenschwander, A. 1009
Neuffer, M. G. 7905, 7926, 7966, 9038, 9074, 9082, 11460, 11498
Neuhaus, G. 7882, 9544, 10239, 10929
Neuhaus, J. M. 3278, 3283, 3478
Neuhaus-Url, G. 7882, 10239, 10929
Neuhuber, F. 13213-13214
Neumann, D. 10674
Neuner, H. 7450
Neupane, F. P. 7990
Neven, L. G. 8309
Neves, N. 5843
Neville, P. 1061
Nevo, E. 2620, 5894, 6815
Nevryanskaya, A. D. 10788
New Zealand, AgResearch Grasslands Research Centre 2846
Newbigin, E. 3293, 3547, 4301, 8565, 12448, 13002
Newbury, H. J. 3410-3411, 5753, 8125, 8437, 12391
Newman, C. M. 5804
Newman, C. W. 12616
Newman, M. A. 1959
Newman, R. K. 12616
Newman, T. C. 4581, 5448
Newsom, D. W. 602
Newsom, L. A. 11481
Newton, A. C. 2440, 2628, 2630, 2632, 7860, 11396, 12629
Newton, C. H. 7485, 13309
Newton, K. J. 4814, 6888, 7886, 10266
Newton, L. E. 9907
Newton, R. J. 6547
Newton, W. E. 4514
Ney, B. 11759
Ng, M. 9684
Ng, P. K. W. 2507
Ng, Q. N. 9435
Ng, T. J. 8366
Nganga, Z. 9618
Ngernsiri, L. 8027, 11886
Ng'etich, W. K. 5438
Ngeve, J. M. 7181, 9489
Ngo, W. 11665
N'Guessan, E. 8575
N'Guessan, F. K. 9241-9242, 10390
Ngugi, E. C. K. 8219
Ngulube, M. R. 12202
Nguyen, A. 5586
Nguyen, H. T. 2457, 3811, 4677, 4679, 5997, 6917, 7731, 7792, 7951, 11530, 12372
Nguyen, M. D. 8030
Nguyen, T. B. 8575, 12160
Nguyen, T. T. 13210
Nguyen, T. X. 11953
Nguyen, V. Q. 8296, 12994
Nguyen Cong Thuat 2776
Nguyen Long Chau 2776
Nguyen Phung Ha 6062
Nguyen-Quoc, B. 7885, 8247
Nguyen-The, C. 8286
Nguyen Thi Lang 1562, 1565
Nguyen Thi Phong Lan 1602
Nguyen Van Luat 1511, 1536, 3799
Nguyen Van Uyen 5837
Ni, W. T. 2350, 8559
Niazi, B. H. 1815
Nibelle, D. 7562
Nicander, B. 5550
Nicco, C. 2496, 8896
Nicgale, A. 2579
Nicholas, J. 4426
Nicholas, P. R. 8424
Nichols, K. E., Jr. 9588
Nichols, R. A. 8846
Nichols, S. 5989
Nichols-Orians, C. M. 4352
Nicholson, D. H. 6720
Nicholson, P. 2472
Nicholson, R. L. 4840
Nichterlein, K. 9917
Nick, P. 8024
Nickell, C. D. 1712, 3951, 6131, 9361, 9371, 11712, 12865
Nickels, R. 5023
Nickeson, R. J. 11799
Nickle, T. C. 8285, 12418
Nicol, D. 2570
Nicolaisen, M. 3965
Nicolas, D. 9763
Nicolás, G. 9415
Nicolas, M. E. 235
Nicolas, P. 7733
Nicolet, J. L. 4111
Nicoll, F. J. 5558
Nicolodi, C. 4316, 12948
Nie, H. T. 790
Nie, X. C. 12112
Nie, X. Z. 2741, 8952
Nie, Z. 1971, 12063, 12167
Niebel, A. 4313, 5788
Nieboer, I. G. 4917
Niebur, W. S. 13421
Nieden, U. zur 10674
Niedenhof, I. 8700
Niedz, R. P. 802
Nielsen, B. J. 12622
Nielsen, G. C. 6738
Nielsen, H. 12229
Nielsen, J. 7807
Nielsen, K. K. 9710
Nielsen, M. T. 3297, 3299, 4290
Nielsen, N. C. 2865
Nielsen, P. J. 6447
Nielsen, P. S. 12600
Nielsen, S. P. 8965
Nielsen, U. B. 13312
Nielsen, V. S. 2430
Nielson, D. C. 4928
Niemeyer, H. M. 260
Niemirowicz-Szczytt, K. 4110, 10706, 11932
Nienhuis, J. 1185, 2354, 3522, 3959, 8304, 9517, 10508
Nienstaedt, H. 13292
Niesbach-Klösgen, U. 5961
Nieściór, H. 12049
Nieto Angel, R. 756, 5242
Nieto-Lopez, R. M. 8972
Nieto-Sotelo, J. 6966, 7864
Nieto-Taladriz, M. T. 7773, 7775
Nieuwhof, M. 9494, 13421
Nigam, K. B. 1051, 2224
Nigam, P. K. 381
Nigam, S. N. 1981, 6624, 7362, 7367
Nigam, S. P. 342
Niglio, A. 4151
Niimi, Y. 11084
Niizeki, H. 427
Niizeki, M. 735, 1672, 12730
Niizuma, T. 9570

Nijhawan, D. C. 1496, 6959, 10325, 10328
Nijkamp, H. J. J. 1404, 9538
Nijs, A. P. M. den 116, 722, 3876, 9247, 10397
Nijs, T. P. M. den 12332
Niki, T. 8004, 11554
Nikkanen, T. 5582
Niklas, K. J. 7672
Nikolaev, N. 4914
Nikolaeva, L. A. 5666
Nikolaeva, M. 2678
Nikolau, B. 1708
Nikolayeva, M. 2678
Nikolova, V. 846
Nikonorenkov, V. A. 6905, 11501
Niks, R. E. 34, 4659, 6801, 6854, 7714
Nilakantapillai, K. 12713
Nilsson, B. 1115
Nilsson, C. 6843, 7020, 12782
Nilsson, L. A. 8715
Nilsson, N. O. 8470, 12438
Nilsson, T. 12947
Nimbalkar, V. S. 10316
Nimis, P. L. 4026
Nimje, P. M. 860
Nimzyk, R. 2173
Ninnemann, O. 11223
Ninot, A. 8459, 9637, 9644
Nirania, K. S. 4321
Niranjana Murthy 1569, 10367
Nirenberg, H. I. 13245
Nirk, H. 8322
Nirmala, A. 371
Nirmala, C. 1733, 11752
Nirmala Kannan 3275
Nirmala Menon 13392
Nisha Chopra 3790
Nishi, Y. 10705
Nishida, E. 2352
Nishida, M. 13379
Nishida, T. 8405-8406, 9581, 12422
Nishihama, R. 1147
Nishihara, M. 1528
Nishihara, M. K. 7147
Nishijima, C. 5396
Nishijima, W. 3185
Nishikawa, K. 2431, 11326
Nishimiya, S. 3083
Nishimura, K. 8405-8406, 8413
Nishimura, M. 1860, 3093, 4266, 6995, 9562, 11207, 12756, 13232
Nishimura, S. 3073, 3151, 4057, 13033
Nishimura, T. 1020
Nishimura, Y. 12731
Nishio, T. 4893, 9228, 10641, 10698, 13040
Nishiuchi, T. 11207
Nishiura, M. 793
Nishiyama, H. 9875
Nishizawa, N. K. 6821, 12592, 13224
Nishizawa, S. 6259
Nishizawa, Y. 3808
Nito, N. 13099
Niu, J. Z. 10722
Niu, X. M. 3430, 3475, 9922
Niu, Y. C. 8969
Nivison, H. T. 6585, 12266
Niwas, R. 10524, 12891
Nixon, K. C. 11255-11256
Niyogi, K. K. 71
Njuguna, C. K. 2045, 9711
Nkongolo, K. K. 2475, 7716
N'kounkou, J. S. 8293
Noaman, M. M. 6769
Nobel, E. M. 5174
Noble, R. M. 2100
Noble, S. 9993
Noda, H. 5331, 9501
Noda, K. 2485, 12523
Noda, K. I. 12261
Noda, T. 9488
Nodari, R. O. 2894
Noël, J. M. 7411
Noël, T. 4493, 4495-4496, 4498, 7561
Noguchi, K. 8352
Noguchi, T. 8473
Noguera, R. 8694
Noh, E. W. 8542
Noin, M. 13201
Noiret, J. M. 13146
Noirot, M. 367, 903, 1102, 8287, 9185
Noiton, D. 10742
Noji, M. 10699
Nokoe, S. 8788
Nolasco, M. 7930-7931, 11455
Nöllen, Y. 6347
Nomura, T. 3049
Nomura, Y. 633
Nonaka, S. 12500-12502
Nong, X. M. 2762
Nono-Womdim, R. 3086-3087
Noone, D. F. 2722
Noor, A. G. M. 9764
Noor, N. S. N. M. 9244
Noor Ilani 6518
Nor Aini, A. S. 9792, 9796
Norcott, K. A. 13018
Nordeen, R. O. 4005-4006
Nordheim, E. V. 13275
Norell, L. 5595, 8640
Norelli, J. L. 9572
Nørgaard, J. V. 2145, 2147, 9788, 11028
Norman, R. J. 11549
Normanly, J. 8814
Norris, D. M. 9377
Norris, J. H. 3939
North, H. 6183
Norton, H. P. 9895
Norton, J. C. 4108
Norton, J. D. 1859, 8371, 8402, 13037, 13119
Norton, M. 3559
Norton, R. A. 9569
Nosaka, Y. 8000
Nosek, J. 11206
Nosov, A. M. 5668
Nosov, A. V. 4708
Notani, N. K. 5754, 7922-7923
Notivol, E. 11023
Noto, F. 7117
Notteghem, J. L. 6999
Nouaille, C. 3469
Nougarède, A. 8428
Nour, G. A. 5399
Nour, K. A. 8656
Novaes, I. M. 4964
Novák, F. J. 6318, 12009
Novák, J. 5660, 5670
Novák, K. 7115
Novak, S. J. 1643, 8089
Novak, T. V. 12313
Nover, L. 5173, 10674
Novikova, N. E. 2911, 7110
Novitzky, R. 7661
Nový, R. G. 13076
Nowacki, W. 5108
Nowaczyk, L. 5195
Nowaczyk, P. 5195
Nowak, J. 3922
Nowak-Bzowy, R. 2140
Noworolnik, K. 2621, 6840
Noyer, J. L. 2009, 5311-5312
Nozawa, H. 10705
Ntabomvura, B. 11738
Ntare, B. R. 866, 9431
Nucé de Lamothe, M. de 3226, 6382, 12071
Nuez, F. 1456, 11474, 11905
Nugent, J. M. 618, 9977
Nunberg, A. N. 2329, 10856
Núñez Díaz de Terán, L. 7722, 8494, 9008
Nunomura, O. 5199
Nuraini, I. 13378
Nurmatova, G. R. 1314
Nurmi, A. 3286
Nürnberger, T. 3435
Nurzhanova, A. A. 11383
Nuss, K. 5411, 5424, 9697
Nuss, K. J. 2007, 12110
Nuss, L. 11747
Nussaume, L. 7231
Nwanze, K. F. 363, 4872, 7980, 10315
Nyachiro, J. M. 10123
Nyanduza, C. 3224
Nyangiri, E. M. O. 2698
Nychka, D. 8838
Nyczepir, A. P. 4145
Nygaard, P. 10005
Nygren, M. 13295
Nyman, E. M. G. L. 12947
Nyman, U. 4002
Nyoka, B. I. 13291, 13302
Nyquist, W. E. 6937
Oakes, J. V. 10585
Oană, C. 10792
Oard, J. 2425
Oba, S. 1556
Obaid-ur-Rehman 7351
Obanda, M. 2045
Obando, M., 4196, 10825
Obanni, M. 7035
Obata, R. T. 1147
Öbek, E. 12643
Oberforster, M. 153, 165
Oberhaus, S. M. 5481
Obeso, J. R. 3418, 4446
Obiri, J. A. F. 11021
Obokata, J. 932, 7389
Obón, C. 2228
Obradović, A. 707, 11967, 12901
O'Brian, M. R. 519, 10470
O'Brien, E. 841
O'Brien, L. 3634, 7746-7747
O'Brien, R. G. 3068
O'Brien, S. P. 8852, 9844
Obst, A. 7830
Obst, N. R. 1487
Obuchi, M. 3003
Obuchowski, W. 4803, 8983
O'Byrne, P. 4459
Ocampo, B. 6108, 6201
Ocampo, C. H. 4248
Ochatt, S. 3105, 3107
Ochatt, S. J. 3558, 4396, 4398
Ochi, M. 366
Ochoa, O. 3051
Ochoa-Alejo, N. 13027
Ochs, G. 5351, 12032
Ochtabińska, A. 5009
O'Connell, M. 4614
O'Connell, M. A. 1840
O'Connell, R. J. 9407
O'Connor, B. J. 1254, 13247
O'Connor, P. A. 738, 3120
Ocumpaugh, W. R. 9301, 12638
Oda, M. 9481
Oda, S. 12513
Odake, Y. 5159
Odell, J. T. 13237
O'Dell, M. 3574, 3592
Odenbach, W. 10059, 12897
Odier, G. 3135
Odintsova, I. G. 2562-2563
Odjakova, M. 4914
Odoardi, M. 2783, 3690
O'Donnell, S. 7541-7542, 9915
O'Donoughue, L. S. 3600
O'Dowd, N. A. 1045
O'Driscoll, K. M. 7540
Odulaja, A. 8788
Oduro, K. K. 13199
Odvody, G. N. 3765, 6942
Odzhakova, M. 4914
Oeller, P. 6286
Oeller, P. W. 4062, 5045
Oelmüller, R. 4956, 6255, 6492, 7201, 8310, 12977
Oel'myuller, R. 4956
Oerke, E. C. 7858
Oertel, H. 8277
Oerther, G. F. 4050
Oetiker, J. 5990
Oettler, G. 2664, 2666, 10059, 10103, 12648-12649
Office International de la Vigne et du Vin 9596
Offord, C. A. 7506
Offringa, R. 921, 13212
Ofir, M. 7101
Ofuya, T. I. 3983
Ogasanović, D. 11971
Ogata, K. 3829
Ogawa, A. 5873, 7751
Ogawa, K. 291
Ogawa, T. 8042, 12745
Ogden, E. L. 4148
Oghiakhe, S. 6216, 9435, 9437
Ogi, Y. 417, 419
Ogihara, Y. 452, 2455, 2571, 8062, 9383, 11311, 12496
Ogilvie, I. S. 3380, 4408
Ogiwara, S. 13028
Ogiyama, K. 13327
Oğlakçı, M. 9739
Ognjanov, V. 9643
Ogo, T. 1226-1227
Ogren, W. L. 5155
Ogundipe, O. T. 11104
Ogura, N. 9536
Oğuz, H. I. 13048
Ogwang, B. H. 3706
Oh, B. G. 6041
Oh, B. J. 6948
Oh, D. G. 10708
Oh, M. H. 8702
Oh, M. W. 6241
Oh, Y. B. 1583
O'Hare, T. J. 9632
Ohasa, Y. 5866
Ohashi, H. 8628
Ohashi, Y. 505, 3816, 4305, 6497, 6647, 8012, 8352
Ohata, T. 12592
Ohba, H. 1007, 8691, 12295
Ohba, K. 991, 2264, 5583, 5609, 7496, 12222, 13326
Ohba, T. 1147
Ohbayashi, A. 8012
Ohbayashi, K. 2218
Ohfuchi, T. 8957
Ohgawara, T. 795, 10807
Ohkawa, J. 10705
Ohkawa, Y. 12745
Ohki, S. 7516
Ohle, H. 7676
Øhlenschlæger, M. 8965
Ohlrogge, J. B. 8464, 8745, 10009, 10422, 12400
Öhlund, K. 12111
Öhlund, R. 11386
Öhlund, R. C. V. 224
Ohm, H. 7035
Ohm, H. W. 263, 4794, 8946
Ohmasa, M. 4504-4505
Ohme-Takagi, M. 5448
Ohmido, N. 8002, 11575
Ohmura, T. 8062
Ohnishi, O. 11614-11615
Ohnishi, S. 1528
Ohno, T. 5083
Ohri, D. 12913
Ohsawa, R. 1175, 1944, 6019
Ohshima, I. 415
Ohshima, M. 4305, 6497, 6647
Ohsuga, H. 9522
Ohta, A. 13327
Ohta, D. 1764, 12399
Ohta, H. 4487, 12015
Ohta, I. 8004, 8007, 10357, 11554, 11563, 11568
Ohta, M. 3049
Ohta, S. 2446, 11557
Ohtani, T. 4077, 5647
Ohtsubo, E. 12725-12726
Ohtsubo, H. 12725-12726
Ohtsubo, K. 9218, 12748
Ohtsubo, N. 1276, 7737
Ohtsuchi, K. 10915
Ohya, K. 9810
Ohya, T. 10705
Ohyama, A. 4057
Oijen, M. van 1798
Oinam, G. S. 8020, 8029
Oishi, K. K. 10253
Oiyama, I. 793, 1913, 13096
Oja, V. 13229
Ojha, C. M. 4189, 6333
Ojima, M. 4142, 5259, 5307
Ojo, K. 9360
Oka, H. I. 11544

Oka, M. 12749
Okabe, A. 2874
Okabe, K. 4504
Okabe, T. 9959
Okada, H. 5646
Okada, K. 206
Okada, M. 8352
Okada, N. 5680, 10705
Okada, N. A. 10232
Okada, Y. 12593
Okagaki, R. J. 7894-7895
Okagami, N. 8292
Okamoto, G. 5284, 12001
Okamoto, H. 11095
Okamoto, K. 3833
Okamoto, M. 5646
Okamura, K. 9920
Okamuro, J. K. 2359
Okano, S. 8023
Okazaki, E. N. 9492
Okazaki, K. 13372
Okazaki, M. 9719
O'Keefe, D. P. 13237
O'Keefe, R. B. 1777
O'Keefe, S. F. 7364
Okeke, J. E. 6245
Okie, W. R. 745, 4145, 8402, 9587, 10752
Okita, T. W. 10379, 11556
Okkels, J. S. 2430, 2603
Okolo, E. C. 6365
Okonkwo, C. A. C. 9182
Öktem, H. A. 1052, 6477
Oku, H. 5043
Okubara, P. A. 5771
Okubo, H. 11037
Okubo, K. 10486
Okuda, S. I. 12764
Okudai, N. 793, 8446
Okuley, J. 5781
Okumura, M. 12256
Okumura, N. 6821, 12592
Okuno, K. 414, 3462, 12749
Okuno, M. 8031
Okuno, T. 3306, 10951
Okwuagwu, C. O. 6365
Olander, S. 12007
Olapade, E. O. 966
Olde, P. M. 9850
Oldenhof, M. 2061
Oldknow, J. 6344
Oleksiak, T. 2274
Oleksyn, J. 2139, 13299
Oleo, M. 10913
Olesen, P. 1209
Olesinski, A. 13227
Oleson, A. E. 8271
Olfert, O. 4747
Olin-Fatih, M. 4219, 5357
Oliva, G. 4923
Oliva, G. E. 6056
Olive, M. 10233
Olive, M. R. 5985
Oliveira, A. 2858
Oliveira, A. B. de 511
Oliveira, A. C. 6887
Oliveira, A. C. de 6887, 6976, 11156
Oliveira, A. M. R. de 4660
Oliveira, D. de 4597
Oliveira, J. A. 1628, 4916
Oliveira, J. C. P. 7038
Oliveira, J. V. de 7146
Oliveira, M. R. G. de 1326
Oliveira Camargo, C. E. de 3650-3651, 4739
Oliveira e Silva, S. de 4809
Oliver, D. J. 2905, 10520
Oliver, M. J. 8498
Oliver, R. 1844, 9993
Oliver, R. P. 8596
Oliver, S. 11676
Olivier, J. L. 6903
Olivieri, I. 3744, 4602, 12812
Ollitrault, P. 13093
Olmedilla, A. 1138, 8850
Olmstead, R. G. 2398, 2402, 2404
Olonova, M. V. 4913
Oloo, W. O. 9766
Oloriz, M. I. 7398
Olorunju, P. E. 4247
Olsen, C. E. 4002
Olsen, F. L. 10175
Olsen, J. K. 9108
Olsen, O. 2615, 3673
Olsen, O. A. 4590, 6829, 6834, 12600
Olson, D. C. 671
Olson, D. J. 2974
Olson, D. L. 7495
Olson, T. 12826
Olsson, O. 7401
Olszewski, N. E. 10660
Oltean, I. 10739
Olvera H., J. I. 5017, 5034
Om, Y. H. 10708
O'Malley, D. 7279
Omanga, P. A. 9423
Omann, F. 7423
Omar, A. A. 9087
Omar, F. A. 1841
Ombakho, G. A. 6932
Omer, E. A. 10637
Omirulleh, S. 5955
Omondi, C. O. 10922
Omorbekova, Z. A. 1314
Omore, A. 852
Omori, N. 5284, 12001
Omura, M. 805, 8445, 9623-9624, 13094
Omura, T. 12771
Onckelen, H. A. van 12150
Onckelen, H. van 910, 914, 13201
Onde, S. 3593
Ondřej, M. 57, 2882
O'Neil, N. R. 10430
O'Neil, P. 11063
O'Neill, C. M. 7653
O'Neill, J. 79
O'Neill, J. J. 9362
O'Neill, S. D. 1197, 3421, 4415, 8681
Ong, C. H. 13104
Ong, E. 1627
Ong, M. 4472
Ongoma, G. I. B. 12107
Onillon, J. C. 13020
Onkar Singh 883, 2925, 5420, 10543
Ono, J. 2654
Ono, N. 6023
Onodera, Y. 9705
Onofaro, V. 697
Onofrii, M. 2821
Onogur, E. 4879
Onokpise, O. U. 13279
Onyeocha, I. 6478
Ooijen, J. W. van 5117, 12946
Ookawa, T. 9215
Oomen, R. P. 2850
Oommen, A. 2350
Ooms, G. 5750
Ooms, J. J. J. 81
Oono, K. 160
Oono, Y. 7397
Oort, M. G. van 4973
Oosawa, K. 714, 13032-13033, 13372
Oosterom, E. J. van 5920
Oostveldt, P. van 1159, 10006
Opatpatanakit, Y. 11287
Opekarová, M. 11204
Opeña, R. T. 3048, 6253, 11893
Openshaw, S. J. 12666
Oppenheim, A. 6500
Oppenheimer, D. G. 3510, 4592, 12419
Opperman, C. H. 4314
Oppitz, K. 12570
Opsahl-Ferstad, H. G. 6829, 10398
Or, E. 3754
Oram, R. N. 1639, 2820, 3204, 11140
Orbović, V. 7647
Ordas, A. 11512
Ordon, F. 1373, 7862
Ordóñez, J. R. 8735
O'Regan, B. P. 6898
O'Reilly, G. 9824
Orellana, J. 293, 12582
Orellano, E. G. 4558
Orf, J. 2859, 11713
Orf, J. H. 6144, 9323-9326, 10453
Orford, S. E. 3601, 8870
Ørgaard, M. 7036, 11649, 12619
Organisation for Economic Co-operation and Development 12384, 13421
Orikono, K. 13407
Orive, M. E. 8833
Orlenko, M. L. 2210
Orlikowska, T. K. 5392
Orlov, N. 13251
Orlov, P. A. 10268, 11338
Orlova, K. 11267
Orlyanskaya, N. A. 10216
Orlyanskiĭ, N. A. 10216
Orlyuk, A. P. 1263
Ormerod, A. J. 7064
Ormrod, J. C. 2053
Ornduff, R. 1212
Ørnstrup, H. 3395
Orolaza, N. P. 5186
Oropeza, A. 4591, 13207
Orozco, B. M. 5155
Orozco-Cardenas, M. 4076, 6268
Orozco-Castillo, C. 8533
Orr, G. 10758
Orr, P. H. 1792, 4000, 11828
Orr, S. J. 4950
Orrell, L. C. 13281
Orrillo, M. 2963, 10571
ORSTOM Actualités 11609
Ort, D. R. 667, 7646
Ortega K., F. 9249-9250
Ortegón Morales, A. S. 7344
Ortholand, J. Y. 10647
Ortiz, C. E. 4323, 11709
Ortiz, J. 803
Ortiz, R. 3144, 5096, 6240, 8242, 8244, 8435, 8438, 8443, 9458, 9614, 11808, 11818, 12331
Ortiz-Ferrara, G. 1266
Ortman, E. 12363
Ortolan, M. G. S. 4992
Ortúñez, E. 12794
Os, G. J. van 10603
Os-Ruygrok, E. P. van 3804
Osada Kawasoe, S. 9395
Osakwe, I. I. 4967
Osanai, S. I. 12560
Osborn, T. C. 3912, 4028, 6076, 6250, 7048, 9282, 13124-13125
Osborne, D. J. 10036
Osgood, J. W. 5399
Osherenko, E. 8682-8683
Oshevnev, V. P. 5426
Oshima, I. 11594
Oshodi, A. A. 9391
Osiewacz, H. D. 7614
Osilis, P. 5132
Osman, M. 4584
Osório, J. 5532
Osorio, L. F. 9809
Ospina, Y. 1610
Ospina R., Y. 9239
Oss, H. van 9553
Ossani, V. 10796
Ossowski, I. von 8857
Oster, J. J. 9227, 9237
Østergård, H. 6851
Osterman, J. C. 10241, 11431
Østreng, G. 12218
Ostrolucká, M. G. 6548, 7444
Ostrovkskiĭ, L. L. 5427
Ostrówka, K. 5378
Ostrowska, K. 615, 10771
Ostrowski, W. 10771
Ostry, M. 8610
Otani, H. 3073, 3118
Otani, M. 427, 1309, 5133, 12501
Otegbeye, G. O. 985
Oterdoom, H. J. 7575
Otsuk, I. P. 1173
Otsuka, K. 9195
Otsuki, Y. 6041, 7898
Ottaviano, E. 117, 1428, 2269
Otten, A. 4426
Otten, L. 928, 5295
Ottoboni, L. M. M. 6883
Ouattara, S. 11710
Ouborg, N. J. 8741, 12244, 13356
Ouchi, S. 2629
Oud, J. L. 9506
Ouellet, F. 8919
Ouk, M. 3796
Ourcival, J. M. 451
Oursel, A. 12382
Oury, F. X. 6747, 12494, 12531
Ousmane, E. 8575
Ouyang, J. W. 10086
Ouzounidou, G. 11356
Ovchinnikova, V. N. 11823
Ovečka, M. 5634
Ovenell, K. H. 10178
Øverland, M. 12616
Ow, D. W. 1127
Owen, H. R. 3148
Owen, M. R. L. 4293
Owens, F. N. 1484, 4864
Owens, J. N. 9821
Owens, K. 1863
Owens, L. D. 4005-4006, 4516
Owens, T. 9014
Owens y de Novoa, C. 10765, 12132
Owings, R. 3370
Owino, F. 3932
Owsley, M. 10400
Owuoche, J. O. 10122
Owuor, B. O. 3932
Owuor, P. O. 2045
Owusu-Nipah, J. 12951
Oyama, K. 12181
Oyanedel, E. 5334
Ozaki, K. 12978
Ozaki, L. S. 4302
Özalp, V. C. 1052
Ozawa, S. 12422
Ozawa, T. 8426-8427, 9597
Özcan, S. 45, 554
Özek, T. 9934-9935
Ozeki, Y. 10614
Özgen, M. 8975
Ozias-Akins, P. 4147, 5400
Özkam, F. 1052
Ozminski, S. J. 2408
Ozolinya, L. 3397
Pääbo, S. 11436
Pablico, P. P. 3861
Pace, C. de 2994, 8084, 9268
Pace, G. M. 306
Pace, P. F. 6141, 7077
Pacheco, A. 11579
Pacheco, C. A. P. 6887, 11420
Pacheco Espinoza, P. J. 5039
Pacheco López, H. 10696
Pacini, E. 1203, 10702
Paciucci, M. 9646
Pack, P. E. 11184
Păcureanu-Joiţa, M. 7355
Paden, D. W. 13333-13334
Padmakumari, K. P. 13392
Padovan, A. C. 8368
Padovan, S. 4652
Padrutt, J. 2159
Padutov, V. E. 4363-4364, 11022, 13300
Pae, D. H. 4096
Paepe, R. de 2065
Paez, A. V. 1394
Pagé, D. 8418
Page, M. S. 1659
Page, N. J. 11143
Page, R. le 7319, 7322-7323
Page, T. 5773
Pageau, D. 10066
Pagès, M. 1420, 5960, 7637, 7919
Pagliarini, M. S. 1412
Pagnotta, M. A. 7728
Pahil, V. S. 4510
Pahulkar, K. S. 5076
Pahwa, S. K. 8947

Pai, R. C. 12196
Paige, K. N. 975
Paillard, N. 6563
Paim, N. R. 7066
Pair, J. C. 9859-9860
Pais, M. S. 993, 8320
Pais, M. S. S. 9533
Paiva, J. 9932
Paiva, J. R. de 12175-12176
Paiva, N. 2350
Paiva, N. L. 8559, 8790
Paiva, R. 11453
Paiva, W. O. de 9501, 13043
Paizert, K. 8996, 10210
Pajeau, M. 5991
Pajuelo, P. 3670
Pakkanen, A. 6532
Pal, A. 39, 8677, 12810
Pal, B. 6757
Pal, K. 8973
Pal, M. 10541, 10546, 12912
Pal, S. S. 249, 329, 1392, 10267
Pal, Y. 10849
Palacios, M. 11844
Palacios, R. 4514
Palacios, R. A. 1686
Palanisamy, S. 4877, 7992
Palaniswamy, P. 3212, 7331
Palaveršić, B. 2695, 6909
Palazón Español, C. 708
Páldi, E. 11348
Palevitz, B. A. 104, 6673
Pálfi-Deim, G. 8917
Palīlava, A. M. 10097
Palilova, A. N. 6788, 10097, 11338
Palishikulu, J. 3706
Paliwal, K. 12754, 12758-12759, 12919
Pallais, N. 11790
Palloix, A. 698, 3086-3087, 7235
Palma, A. 6944
Palmas, G. 5578
Palmberg, C. 967
Palmberg-Lerche, C. 4346
Palme, K. 312, 486
Palmer, B. 4962
Palmer, J. D. 618, 2398, 2402, 2404, 3188, 3368, 6564, 9977, 13364
Palmer, R. 2853
Palmer, R. G. 2861, 8150, 8157, 12851
Palmgren, M. G. 9048
Palmieri, A. 6266
Palmieri, S. 8480
Palni, L. M. S. 11121
Palomares, R. 6492
Paloniemi, J. 6530
Palta, J. P. 1785, 4003
Paludzyszyn Filho, E. 5385
Palukaitis, P. 8570, 10945
Palumbo, M. 1368, 8872
Palva, E. T. 5776, 10029
Palva, T. K. 5776
Pamin, K. 1972
Pan, A. 10164
Pan, A. H. 6494, 7391
Pan, C. G. 8040
Pan, C. L. 2105, 2107
Pan, H. K. 3766
Pan, J. S. 5260
Pan, N. S. 902, 6774
Pan, Q. B. 9737, 12161
Pan, R. S. 6029
Pan, S. Q. 8800
Pan, S. T. 196, 3609
Pan, T. 13128
Pan, T. K. 7537
Pan, X. 5228, 11964
Pan, X. B. 9217, 12740
Pan, X. G. 1576
Pan, X. P. 1331, 4730
Pan, Y. 2778
Pan, Y. J. 2243
Pan, Z. L. 3698
Panaïotov, I. 1258, 3594
Panaud, O. 11185
Panayotov, I. 3594
Pancaldi, M. 3132, 5234, 10714
Panchenko, O. K. 6760
Panchev, I. 4914
Panda, B. 10894
Panda, B. S. 2230
Panda, D. 438
Panda, P. 10894
Pande, H. C. 7852
Pande, H. N. 213
Pande, K. 3835
Pande, P. C. 213, 2996
Pande, S. 12696
Pandev, S. 9610
Pandeva, R. 704
Pandey, A. 9126
Pandey, A. K. 4276, 4960
Pandey, D. K. 2749, 6787
Pandey, G. 4022, 9944
Pandey, M. P. 1558, 3824
Pandey, R. K. 9432
Pandey, R. N. 596
Pandey, S. 3762, 5982
Pandey, S. C. 5164
Pandey, S. J. 3022
Pandey, S. K. 10578
Pandey, U. B. 8298
Pandey, U. C. 1816
Pandeya, R. 4733, 7743
Pandeya, R. S. 8550
Pandian, I. R. S. 1851, 7372
Pandit, V. V. 9053
Pandolfi, R. 4395
Pandya, H. M. 6364
Pandya, R. 3801, 11690
Panella, L. 9427
Paneru, R. B. 4848
Panetsos, K. P. 8644
Pang, H. H. 383
Pang, S. Z. 5481, 10944
Panhwar, G. A. 12164
Panhwar, G. R. 12164
Paniego, N. B. 7547
Panikkar, A. O. N. 10987, 12177-12179
Panis, B. 6317, 8440, 9616
Panković, D. 7339
Pannelli, G. 6410
Pannetier, C. 6395
Pannu, P. P. S. 6063
Pant, C. C. 6587
Pant, D. 1379
Pant, N. M. 882, 7375
Panter, D. M. 10458
Pantoja, A. 7105, 12772
Pantulu, J. V. 372
Panwar, K. S. 541, 3782, 6956
Paolini, M. 13190
Paolis, A. de 5758, 6474
Pap, E. 12995
Papa, R. 2433, 6817, 10184
Papadimitriov, P. 5397
Papadopoulos, A. P. 11898
Papageorgiou, A. C. 2150
Papalkar, J. S. P. 1852
Paparozzi, E. T. 3381, 9175, 12419
Pape, H. 6581
Papenhagen, F. 8253
Papineau, J. 4957, 10440
Papp, M. 4749, 5893
Pappelis, A. J. 9106, 9505
Pappiah, C. M. 1850
Pâques, L. E. 5602, 13321
Paques, M. 6534
Paradela Filho, O. 9156
Paradkar, V. K. 1996
Parakh, D. B. 4995
Parakonny, A. S. 2376
Parama, V. R. R. 6996
Paramasivam, K. 12082
Paramasivan, K. S. 12713
Parameswar, N. S. 3862, 7999
Parameswarappa, K. G. 6039
Parameswarappa, R. 1559, 3773, 8218, 10479
Paramjit Singh 835, 839
Paran, I. 3051, 12981
Paranhos, J. T. 420
Paranjape, V. 3305
Paras Nath 574
Paraschivu, M. 6891
Parashar, R. D. 2929
Parde, S. B. 6513, 7415
Pardee, W. D. 11469
Pardini, M. I. de M. C. 49
Pardo, J. M. 9548
Pardos, J. A. 6550, 11023
Pareddy, D. R. 1434
Paredes, A. M. 3733
Paredes, O. M. 9384
Pareek, A. 5728
Pareek, O. P. 4165, 4168, 4518
Parent, J. G. 8418
Parentoni, S. N. 1433, 6887
Parets-Soler, A. 910
Parfent'ev, M. G. 4716
Parfitt, D. E. 4157, 9657
Parh, I. A. 586
Paris, H. S. 3094, 3096, 5211, 11908, 11925
Parisi, L. 3117
Pařízek, P. 1355, 2636
Park, C. B. 1998
Park, H. G. 12235
Park, H. Y. 624
Park, J. D. 3127
Park, K. G. 5881
Park, K. H. 5653
Park, K. Y. 4425
Park, N. B. 5653
Park, P. 3118
Park, S. C. 10011
Park, S. I. 2856
Park, S. J. 535, 2897, 8179, 10510, 12873, 12880
Park, S. K. 7622
Park, S. Z. 6989, 12736
Park, T. K. 8148
Park, W. D. 10465, 12717
Park, Y. D. 13213-13214
Park, Y. H. 5316, 6031
Park, Y. K. 2856
Park, Y. S. 1934, 7494
Parkash, V. 234
Parker, G. B. 4838
Parker, J. E. 1959, 3530, 5786
Parker, J. S. 7206, 7524
Parker, L. T. 8724
Parker, M. A. 597
Parkin, D. T. 6660
Parkin, I. 6341, 9667
Parkin, K. L. 7196
Parkinson, R. 6354
Parks, B. 10013
Parks, B. M. 72
Parks, C. R. 2399, 11007, 13284
Parks, N. J. 9755
Parlevliet, J. E. 34, 3662, 6651, 6657, 7571
Parmar, V. L. 6429
Parmentier, Y. 1156, 9727, 10934
Parnell, J. 3563, 7470, 8615
Paroda, R. S. 1773, 2450, 11150
Parodi, P. C. 9348
Parra, V. 2215
Parrott, W. A. 4990, 10490
Parry, M. A. J. 3286-3287, 5461, 6488
Parsana, G. J. 580
Parshina, T. V. 4744
Parsons, R. 124
Partap, P. S. 6186, 8197
Parthier, B. 5909
Partner, P. L. R. 1083
Parvateesam, M. 3984
Parveen, B. 4902
Parvez, K. 4853
Pašakinskienė, I. 2793
Pasberg-Gauhl, C. 8435
Pascal, E. 3312
Pascual, L. 7491, 8453
Pashina, L. V. 10982
Pasqual, M. 5635
Pasquet, R. 12917
Pasquet, R. S. 7143
Pasquier, B. 8743
Pasquini, M. 4652, 6783
Passas, H. J. 9088, 9104
Passelegue, E. 5986
Passey, A. J. 4120
Passioura, J. A. 2112
Passos, E. E. de M. 10873
Pastén, W. 9482
Pasternak, J. J. 2323, 2334-2335
Pastor, J. 11676
Pastor-Corrales, M. A. 2899, 9396
Pastori, G. M. 5983, 7950
Pastuszewska, B. 4959, 5009
Paszkowski, J. 8546, 12410
Patakhova, A. M. 11383
Pataky, J. K. 2687, 3751, 7965
Patanothai, A. 10887
Patat-Ochatt, E. M. 3107
Pate, J. S. 12892
Patel, A. D. 8513
Patel, A. T. 5330
Patel, B. N. 10943
Patel, C. S. 10285, 10287
Patel, D. B. 7135, 9424-9425
Patel, D. S. 5330
Patel, G. V. 1761, 5330
Patel, H. R. 10943
Patel, H. S. 8513
Patel, J. A. 9424-9425
Patel, J. C. 5498
Patel, J. N. 6290-6291
Patel, J. R. 727
Patel, K. G. 4329
Patel, M. M. 8513
Patel, M. P. 8513
Patel, M. S. 6006, 6217, 6424
Patel, O. P. 1051
Patel, P. B. 5995
Patel, P. H. 9171
Patel, S. 4593
Patel, U. G. 4329, 5498
Patel, V. A 9393
Patel, V. J. 4267, 12083
Patena, L. F. 12380
Pater, B. S. de 5044
Pater, M. J. 3893
Pater, S. de 11750
Paterniani, E. 4810
Paternotte, S. J. 10681
Paterson, A. H. 41, 2339, 3486, 7975, 11197
Pathak, A. K. 7991
Pathak, A. R. 596, 1761, 5067
Pathak, C. S. 4025, 5140
Pathak, H. C. 4862, 6217, 12097
Pathak, M. D. 13416
Pathak, M. M. 6223
Pathak, P. 8713
Pathak, P. K. 7991
Pathak, R. A. 4192
Pathak, R. K. 4189, 4192
Pathan, A. J. 1941
Pathania, N. K. 3016
Pathirana, R. 872, 13173
Patidar, H. 2224
Patil, A. A. 6569
Patil, A. J. 7151
Patil, A. M. 10867-10868, 10870, 12065
Patil, A. N. 7151, 11899
Patil, B. C. 6996
Patil, F. B. 3786, 3788, 4067, 10329, 10551, 10977
Patil, M. A. 8499-8500
Patil, M. T. 11057
Patil, N. B. 7418
Patil, P. L. 10545, 10547
Patil, P. S. 10868, 10870, 12065
Patil, R. A. 6517
Patil, R. S. 7224, 11881
Patil, S. A. 5403
Patil, S. G. 6996, 10884
Patil, S. J. 10368, 10479
Patil, S. K. 7415
Patil, S. L. 6013
Patil, S. P. 10814
Patil, S. S. 3773, 8218
Patil, S. S. D. 11057
Patil, V. D. 4238, 6364, 10869
Patil, V. P. 946, 4153, 6137, 7091-7092, 11691
Patil, V. V. 8499
Patnaik, N. C. 10548
Patnaik, R. N. 3835
Patnaik, S. 438

Patra, M. M. 10891
Patra, N. K. 4475
Patrick, W. H., Jr. 12752
Patrie, W. 6894
Patskovskiĭ, Yu. V. 1788, 5100
Pattee, H. E. 7359
Patten, A. R. 752
Patterson, E. 10215
Patterson, F. L. 263, 4783-4784, 8946
Patterson, G. I. 2675, 7932
Patterson, T. F. 13317
Pattiwar, V. V. 1713
Patyna, H. 284, 5910
Pätzold, G. 13053
Paudel, D. C. 4848
Pauk, J. 2448, 5355, 5879
Paul, A. 1044
Paul, A. D. 9829
Paul, A. L. 7881
Paul, C. 1522
Paul, H. 5138, 6463, 9577, 10916
Paul, J. M. 6334
Paul, M. J. 5750
Paul, N. K. 10617
Paul, R. 7585
Paul, T. 13150
Paul, V. H. 8487, 8493
Paul, W. 4203, 5363
Paul, Y. S. 1755
Paulet, F. 2009
Paulíková, D. 12253
Paulin, D. 4287
Paulis, J. W. 1444, 7918
Paulitz, T. C. 2845
Paull, J. 2426
Paull, J. G. 10525
Paulmann, W. 3193
Pauls, K. P. 1947, 2337, 3080, 3911, 9666
Paulsen, G. M. 7695, 12311, 12518
Paunović, A. S. 11967
Paunović, S. 7258, 7273
Paunović, S. A. 11967
Pautot, V. 8599, 9549, 13201
Pautsch, G. R. 1708
Pauw, R. M. de 180, 8877
Pavek, J. 1795
Pavek, J. J. 1796, 10598, 11806, 11838
Pavel, E. W. 10756
Paveley, N. D. 13410
Pavesi, A. 6841
Pavetti, D. R. 9256
Pavingerová, D. 8671
Pavithran, K. 1557
Pavlenko, E. A. 2023
Pavlenko, E. P. 5146, 10638
Pavlista, A. D. 1777, 11793
Pavlova, N. A. 5863, 11294
Pavoni, A. 7761
Pawar, B. B. 4258, 6359, 10861-10862
Pawar, K. B. 2927
Pawar, S. E. 11776, 12923
Pawar, V. D. 9352
Pawlak, M. 38
Pawlicki, N. 7174
Pawluk, A. 460
Pay, A. 5858, 11659
Payak, M. M. 1457, 6907
Payne, J. A. 758
Payne, J. T. 10752
Payne, R. C. 5711
Paynot, M. 2073
Payton, S. 1829
Paz-Ares, J. 5961
Pè, M. E. 1428, 3767, 9026, 9071, 9152
Peacock, C. H. 10415
Peacock, J. 3456
Peacock, J. M. 6766, 7786
Peacock, W. J. 5985, 7649, 10233
Peaden, R. N. 478, 5160
Peakall, R. 2809
Pear, J. 3289
Pearce, G. 4064, 6268, 13014
Pearce, R. S. 5919, 7713, 8281, 8964
Pearsall, D. M. 11482, 13242
Pease, E. A. 7641
Peat, W. E. 9272
Pécaut, P. 12990
Pecchioni, N. 2345
Pecetti, L. 481, 5876, 7768
Pechter, P. 5522
Pecina, M. 2667
Pecio, A. 2609
Pecker, I. 7213
Pecknold, P. C. 738, 3120
Peckover, R. 11097, 11099
Pécsi, S. 3273, 4768, 5671
Pedersen, C. 7379
Pedersen, C. Å. 5688
Pedersen, H. 1802
Pedersen, H. C. 13185
Pedersen, H. S. 7186
Pedersen, J. F. 2798, 11522, 11621
Pederson, G. 9305
Pederson, G. A. 3924, 9298, 11679
Pedrazzini, E. 688, 2885
Pédron, J. 10930
Pedrosa, J. F. 715
Pedroso, M. C. 993
Pedroso, P. A. C. 4283
Peeters, M. C. 4334
Peferoen, M. 683
Peffley, E. B. 11861
Pegg, K. G. 3068, 6321
Pehu, E. 8976, 10602
Pei, C. J. 7769
Pei, Y. J. 11494
Peirce, J. 1154
Peirce, L. C. 1837
Peiris, B. D. 12753
Peitrzak, L. 9161
Pekić, S. 9960
Pekkala, T. 11399
Pelcher, L. E. 983, 7627
Pelèse, F. 4207
Pelger, S. 6733, 8955
Pélissier, B. 7405
Pélissier, T. 11210
Pellé, R. 2946, 2993
Pelleau, Y. 6537
Pellegrineschi, A. 6563
Pellegrini, G. M. 6277
Pellegrini, L. 2057
Pellegrini, M. G. 8342, 8344
Pellegrino, C. 6567
Pellet, D. 8288-8289
Pelletier, G. 99, 1940, 4207, 7624, 9665, 9976, 11744, 13126
Pellett, H. 2159, 9842
Pellicano, I. J. 11269
Peloquin, S. J. 5096, 8242, 8244, 9458, 11808
Peltier, D. 13367
Peltonen, J. 1296, 2642, 8911
Peltonen-Sainio, P. 1377, 2642, 8976, 10195, 11399
Pelucchi, N. 11454
Peña, L. 13236
Peña, R. J. 3702, 7826, 8992, 12517, 12650
Peña Rojas, E. A. 7105
Pence, V. C. 6588
Penchukova, V. S. 4945
Pendery, B. M. 3921, 3935-3936, 7057
Pendleton, R. C. 3711
Peneva, T. I. 2563
Penfold, C. N. 10030
Peng, A. J. 12050
Peng, C. J. 6326, 9620
Peng, D. C. 418, 9738, 9749
Peng, D. X. 797, 3336, 5513
Peng, H. P. 2737, 10011
Peng, J. R. 2360, 5773
Peng, S. L. 2942
Peng, T. 11665
Peng, Y. J. 10978
Pengelly, B. C. 3892, 6096
Pengelly, W. J. 7019
Penix, S. E. 8921
Penna, J. C. V. 5492
Pennazio, S. 2875
Pennell, D. 10747
Pennell, R. I. 1801
Penner, D. 8531
Penner, G. A. 3692, 12633
Penney, D. C. 10122
Pennington, T. D. 7464
Pennisi, A. M. 4245
Pennone, F. 5250
Penny, D. 5823
Penon, P. 9493
Pensuk, V. 10887
Pental, D. 630, 4215, 10841, 12915
Penteado, M. I. O. 4964
Penza, R. 581, 684
Penzes, E. 3293, 6498
Pepin, G. W. 9858, 11055
Peracino, V. 9941
Perbal, G. 13201
Percival, A. E. 949, 10957
Percival, F. W. 5326
Perdetzoglou, D. 9877
Perdomo, R. 6450
Pereira, A. 2969, 7166
Pereira, A. da S. 1791, 12939
Pereira, J. C. V. N. A. 4273
Pereira, J. S. 5532
Pereira, M. G. 7976
Pereira, P. A. A. 1718
Pereira de Souza, A. 9996
Perenzin, M. 1280, 4652, 12550
Perera, K. D. A. 4089, 5198
Perera, R. J. 3498
Peretyat'ko, V. G. 2041
Pereverzev, D. S. 11509
Pérez, A. 1757, 1823
Pérez, A. M. 3263
Pérez, C. 12823, 13276
Perez, C. M. 1550, 1586-1587, 11597
Pérez, M. D. 556
Pérez, N. 1571
Pérez, O. 3263
Pérez, S. 13067
Pérez-Alfocea, F. 4071, 7229
Pérez-Callejón, E. 4587
Pérez de la Vega, M. 91, 7866, 12635-12636
Pérez de Paz, P. L. 9921
Pérez García, F. 1819
Pérez-Grau, L. 1154
Pérez Leroux, H. A. J. 10283
Pérez Moreno, L. 3038
Pérez-Muñoz, C. A. 8226-8227
Pérez Nieto, J. 5386
Pérez-Parron, M. A. 13276
Pérez-Ruiz, C. 973
Pérez Solis, L. 9735-9736, 10958
Pérez-Vendrell, A. 1366
Perfectti, F. 7491, 8453
Periappuram, C. 4428
Perkins-Veazie, P. 7205, 7283
Perkowski, A. 2915
Perler, O. 2903
Perlick, A. M. 4997-4998
Permezskiĭ, S. A. 1316
Permod Kumar 4963
Perner, B. 3065
Pero Martínez, M. A. del 2194
Pérombelon, M. C. M. 8268
Perrelló, A. E. 6780
Perret, P. M. 3225
Perretant, M. R. 7775
Perrier, X. 12428
Perriman, R. 12127
Perrino, P. 3980, 7691, 7825, 11155
Perrone, D. 688, 697, 4087
Perrot, G. H. 3750
Perrot-Rechenmann, C. 13203
Perrotta, C. 6841
Perrotta, G. 4245
Perry, C. 4503
Perry, G. 5826
Perry, K. L. 10945
Perry, M. 3227
Persson, K. 2205
Pesce, A. S. 8144
Peschke, V. M. 7955
Pescitelli, S. M. 9122
Pesole, G. 8854
Pessoa, G. P. 7146
Pet, G. 8343
Petanidou, T. 5673
Petcu, E. 12557
Petelina, G. G. 12770
Peter, G. 6286
Peter, K. V. 660, 705, 7550, 9927, 11892, 11940
Peterek, G. 8187
Peterman, T. K. 10026, 12407
Peters, D. 10603, 10916
Peters, D. C. 6812, 10067
Peters, J. A. 7254
Peters, J. L. 70
Peters, P. J. 6931, 11529
Peters, R. 9515
Peters-Van Rijn, J. 3390, 4414, 12249
Petersen, C. 13178
Petersen, G. 4797
Petersen, H. W. 4002
Petersen, M. 121
Petersen, W. L. 338, 5991
Peterson, C. J. 159, 168, 8908, 10075, 11342, 12561
Peterson, C. M. 3362
Peterson, F. J. 754
Peterson, G. C. 3099, 10312
Peterson, L. A. 1785
Peterson, P. A. 1415, 3730, 3768, 5963, 9032-9036, 9050, 10235, 12663
Peterson, P. J. 7586
Peterson, P. M. 1645, 6071, 9273
Peterson, P. W. 8328
Peterson, R. J. 11052
Peterson, R. L. 1655
Peterson, T. 3716, 9028
Petiard, V. 2049, 5118
Petit, R. 7437
Petit, R. J. 6692, 8592
Petitjean, A. 2358
Petitprez, M. 11847
Petjuch, G. 8256
Petkova, V. 5188
Petniūnienė, D. 2793
Peto, C. A. 74
Petolino, J. F. 1414, 1434, 1464
Petrasovits, L. 290
Petri, G. 4477
Petrov, A. P. 11124
Petrović, R. 2688
Petrowski, M. 3915, 11657
Petruzzella, D. 9612
Petterson, D. 6093
Petterson, S. 4897
Pettersson, M. W. 1002
Petti, R. 1368, 6832
Pettigrew, W. T. 6515, 9741
Pettinelli Júnior, A. 3651
Pettitt, T. R. 9715
Petukhova, I. P. 7297
Peumans, W. J. 632, 8299, 8703
Peuša, H. 2462
Peusha, H. 2462
Peveri, C. 2345
Peyachoknagul, S. 6985
Peyronnet, C. 5055
Peyruchaud, O. 3302
Pezzali, M. 3690
Pfahler, P. 323
Pfahler, P. L. 1416
Pfannschmidt, T. 9675
Pfeiffer, F. 8639
Pfeiffer, P. 3954
Pfeiffer, T. W. 5726
Pfeiffer, W. H. 3702, 8992
Pfeil, U. 8991
Pfieffer, W. H. 12650
Pfitzner, A. J. P. 10658
Pfitzner, U. M. 8327
Phad, H. 8500
Phad, H. B. 8499
Phadnawis, B. N. 5887, 11320
Pham, H. 1395
Pham, J. L. 12503
Pham Cong Voc 1536, 3799

Pham Thi Mui 1536, 3799
Pham Trung Nghia 1515
Pham Van Bien 7994
Pharis, R. P. 148
Philipp, U. 8981
Philippe, G. 8647
Philipps, G. 1156, 9982
Philips, J. 7956
Philipson, M. N. 9849
Philipson, W. R. 9849
Phillippe, L. M. 11073
Phillips, A. 8821
Phillips, A. L. 7638
Phillips, D. A. 5035
Phillips, D. V. 9331
Phillips, G. C. 11119
Phillips, M. S. 3007, 3009, 9478, 11842
Phillips, R. L. 2685, 3687, 3734, 4789, 5980, 6860-6861, 7578, 7662, 9058-9059, 9067, 9132, 11404
Phillips, T. D. 3689, 4254, 5929, 5932
Phillips, W. J. 12999
Phillipson, B. A. 2582
Phillipson, J. D. 5670
Phillipson, P. B. 11693
Philogène, B. J. R. 10304
Phool Singh 1750, 2923
Phoplonker, M. A. 9308
Phul, P. S. 283, 1486, 1533, 1539, 6972, 8152
Phundan Singh 2085
Phung Ba Tao 1561, 1600
Phupaibul, P. 7067
Phutela, R. P. 4489
Piano, E. 481, 6089, 9302
Piao, D. W. 9354
Piatkowski, D. 6577
Piatkowski, G. 916
Piatti, F. 7721
Piazzano, M. 10822
Picard, B. 6747
Picard, C. 8606
Picard, G. 11210
Picardi, E. 11966, 11977
Piccirilli, M. 1654
Pich, U. 7096, 8165
Picha, D. H. 10752
Pichersky, E. 3391, 7617, 8860
Pichl, L. 8979
Pichon, M. 3918, 11666, 12494
Pichot, A. 3534
Pichot, C. 4351, 8611, 8775, 12191
Pickardt, T. 4199
Pickering, R. A. 11382
Pickersgill, B. 98, 4088
Pickersgill, R. W. 3178
Pickett, S. G. 11445
Picton, S. 675, 1829, 8325, 9540, 9613, 11883
Pie, K. 3385
Piech, M. 4805-4806
Piechottka, G. P. 11217
Piekos, B. 10021
Pieltain, A. 11628
Pienaar, B. J. 6224
Pienaar, J. C. 1217
Pienaar, R. de V. 1265, 1387, 1637, 12801
Pieper, K. 12975
Piepho, H. P. 2302, 3471, 6645, 12369
Pieroni, A. 5553
Pierpoint, J. A. 12867
Pierre, M. 7050
Pierre, M. D. 8196
Pierre, M. dela 7555
Pierronnet, A. 5248
Pieters, M. M. J. 2991
Pieterse, A. H. 7597
Pietilä, L. 10632
Pietrzak, L. 351
Pietrzak, M. 3283, 8320
Piffanelli, P. 6340, 10836
Pigliucci, M. 2363
Pignone, D. 4682, 9269
Pihlgren, U. 843
Pijut, P. M. 5337
Pike, L. M. 3099
Pikulik, R. 12964
Pilate, G. 4559, 8641, 12186
Pilch, J. 8993-8994, 10133
Pilgrim, M. L. 78, 1161
Pilhouze, J. 13421
Pillai, G. R. 6385
Pillai, G. S. 7550
Pillai, K. G. 8035
Pillai, K. S. 6385
Pillai, R. N. 9177
Pillai, R. V. 6372, 6402
Pillai, S. V. 5416, 7373
Pillen, K. 2029, 12113, 13189
Pilowsky, N. 4090
Pimbert, M. P. 6117
Pimenov, M. G. 4631
Pimentel, R. B. 787
Pinaev, A. 12822
Pinck, L. 8566
Pineda, J. B. 7962
Pineda, O. 8282
Piñeiro, M. 12126
Piñero, D. 979
Pink, D. A. C. 8312
Pinkerton, A. 7328
Pinkerton, B. W. 4929
Pinnell, H. D. 2141
Pinnisch, R. 827
Pino, A. M. del 12056
Pino, S. 12056
Pinochet, J. 10715
Pinon, J. 4350, 7447, 9789, 12191
Pinot, F. 11205, 11800
Pinthus, M. J. 8898, 9129
Pinto, A. C. Q. 8411
Pinto, F. M. 8549
Pinto, J. E. B. P. 5565, 5635
Pintor-Toro, J. A. 9548
Pinxterhuis, J. B. 4951
Pînzaru, P. 11066
Piper, E. L. 6069
Pipoly, J. J., III 5570, 5572, 7459, 8626, 11011-11012
Pippalová, E. 4988
Piquemal, M. 2496, 8896
Piqueras, A. 808, 9831
Pirags, D. 3341
Pirani, V. 12056
Pirck, M. 10421, 11659
Pires, M. B. G. 10485
Pirovano, L. 6918
Piruzian, E. 3280
Piruzyan, E. 3280
Pisante, M. 2511
Piskunova, N. P. 4773
Pistillo, P. 12868
Pistorius, R. 4527, 4541
Pistre, R. 7291
Pistrick, P. 7676
Piszczek, P. 5195
Piszker, Z. 2418
Pitas, J. 5958
Pitchaimuthu, M. 1850
Pitrat, M. 4111, 5208, 11906, 13029-13030
Pitta, G. V. E. 1485, 3777
Pittalwala, T. S. 6675
Pittman, R. N. 864, 868
Pius, J. 10332
Pivnick, K. A. 7331
Pixley, K. V. 5977, 9141
Piyachoknagul, S. 11886
Piyachoknakul, S. 8027
Pizzinatto, A. 6741
Pizzolongo, P. 2511
Pla, M. 1420, 5960
Pląder, W. 13038
Pladys, D. 1657
Plaha, P. 552, 1306, 1567, 4725, 6188, 7114
Plail, R. 5467
Plaisted, R. L. 1799, 2952, 8282, 9451, 11816
Plana, J. 5394
Planchon, C. 6363, 10487
Plant, A. L. 8812
Plant Growers Australia Pty Ltd. 3388
Plaschke, J. 10101, 12530
Platani, C. 1328
Platenkamp, G. A. J. 4431
Platz, G. J. 8970
Plaut, Z. 8516
Płażek, A. 12795
Pleban, T. 9553
Plegt, L. M. 1144
Plekhanova, M. N. 12006
Plesničar, M. 7339
Plesník, S. 10477
Plesse, B. 10934
Plessis, J. G. du 1429
Plessis, W. du 1096
Plever, C. 13185
Plewa, M. J. 10016
Pliego, F. 9547
Plissey, E. S. 11798-11799
Plitmann, U. 4635, 6706
Pliūra, A. 3358
Płocharski, W. 5269
Ploeg, A.-T. 8567
Plonka, F. 7029
Plooy, C. P. du 12011
Ploper, L. D. 6141, 7077, 8161
Plotnikova, L. S. 2109, 4532
Plotnikova, Yu. M. 5218
Plourde, A. 5593
Plouvier, V. 6719
Plowman, R. D. 12357
Pluchard, P. 12531
Plunkett, G. M. 2398
Plyusnina, R. A. 13191
Pnueli, L. 7219-7220
Poblete, F. 3002, 3005
Poca, E. 1420
Pocceschini, N. 6832
Pochaba, L. 10116
Pochard, E. 3086, 8363
Pocsai, K. 5374
Podgaetskiĭ, A. A. 1782, 2965
Podivinsky, E. 5632
Podjavoršek, A. 1315
Podol'skikh, A. N. 2766
Podsosonny, V. A. 7896
Podsosonnyĭ, V. A. 7896
Podyma, E. 3928-3929
Podyma, W. 4792, 10196
Poehlman, J. M. 9949
Poel, A. F. B. van der 5697
Poels, P. 5008
Poethig, R. S. 332
Poethig, S. 9046-9047, 9088, 9104, 10248
Poeydomenge, O. 12184
Poff, K. L. 77, 7647, 8819
Poggio, L. 1622, 9061-9064, 11617, 12296
Pogna, N. E. 2493, 2507, 3636, 4652, 7730
Pogorelova, L. G. 10063
Pohlman, J. D. 6230, 6244
Poissonnier, M. 6534
Pojedyniec, M. 11645
Pokhiton, S. V. 2041
Pokhrel, T. 8876
Poklemba, C. J. 6095
Pokorný, R. 7059
Pol, P. S. 579
Polacco, J. C. 4989, 8148
Polacco, M. 6894, 11444
Polanco, C. 12635
Polara, K. B. 6006, 6424
Polat, T. 9300
Polesello, A. 11962
Polignano, G. B. 530, 3957, 5004
Poliquin, J. 13316
Polishchuk, V. I. 5427
Polito, V. S. 1923, 10828
Pollak, L. 1454, 9002
Pollak, L. M. 2701, 5951-5952, 6878, 9006
Pollak, P. 6583
Pollak, P. E. 9882
Pollák, T. 7604
Pollard, J. E. 3153
Pollard, V. 672
Polle, A. 9951
Pollet, A. 7011
Pollini, C. P. 7819
Pollmer, W. G. 11433
Pollock, D. D. 12454
Pollock, S. 3510
Polo, M. C. 5293
Polonetskaya, L. M. 7424
Polyakova, G. A. 5612
Poma, I. 5485, 5491, 7117
Pomeranke, G. J. 3688
Pomeranz, Y. 12528
Pomeroy, M. K. 13314
Pomier, M. 6407
Pomilio, A. B. 1686
Pommer, C. V. 4272
Pompeu, A. S. 2896
Pomponi, M. 5758
Ponath, Y. 5799
Ponchet, J. 7497
Ponert, J. 4760
Pongtongkam, P. 6985, 8027, 11886
Ponitka, A. 225
Ponnuswami, V. 3081
Ponnuswamy, K. N. 12429
Ponnuswamy, V. 7085
Pons, B. 6990
Pons, O. 12428
Ponstein, A. S. 5743, 8564
Ponz, F. 5201, 5693
Ponz Ascaso, R. 5061
Pookpakdi, A. 6103
Poole, N. J. 11887
Pooler, M. R. 636, 9510
Pooni, H. S. 1084, 6980
Poornima, S. 9775
Poovaiah, B. W. 44, 4812
Pop, N. 10721
Popandopulo, M. I. 2766
Pope, S. J. 3189, 8467
Popek, R. 4407
Popelova, E. A. 1901
Poperelya, F. A. 4716
Pophaly, D. J. 1619, 3864
Popov, A. 10782
Popov, A. S. 12450
Popova, E. 4698, 5871
Popova, L. 11138
Popova, L. P. 10126
Popovich, E. A. 1057
Popowich, E. A. 1057
Porceddu, E. 7728, 8759, 8883
Porfiri, O. 4652
Porfirova, S. A. 4956
Porreca, G. 5864
Porta-Puglia, A. 7075, 8139
Porter, A. 6352
Porter, D. M. 3245, 9687
Porter, D. R. 3665, 6856, 8944, 8971
Porter, G. A. 8235, 11798-11799
Porter, J. M. 12825
Porter, K. B. 3667
Portesi, A. 2345
Portetelle, D. 5087
Portier, A. 10794
Portmann, P. A. 4656
Posada S., H. 1720
Poschenrieder, C. 343
Posler, G. L. 355, 359
Posluszny, U. 11846, 13347
Pospíšilová, D. 129, 770, 772, 774, 784, 3154
Posselt, U. K. 6066
Posso, C. E. 7104
Posthumus-Lutke Willink, D. 5115
Postolatiĭ, A. A. 1259
Poswal, M. A. T. 7145, 12920
Potdukhe, N. R. 3599, 9170
Poteet, D. 11667
Potenko, V. V. 3365, 8642
Potes, M. F. 4246
Potgieter, G. F. 10138
Potier, F. 6386
Potopal'skiĭ, A. I. 2225
Potrykus, I. 54, 156, 2456, 3812, 4920, 7738, 7770, 7882, 8073, 10378, 11310, 11562, 12786
Potter, D. 12925
Potter, L. R. 9304
Potter, R. 12600

Potter, S. 7661
Potter, S. L. 10031
Potts, B. M. 972
Potts, W. E. 8241
Potty, S. N. 12179
Potvin, C. J. 5591
Potz, H. 5143
Pouénat, M. L. 6279
Poulos, J. M. 4089, 5198, 6284
Poulsen, C. 8732, 10464
Poulsen, G. B. 3965, 4209
Poulsen, P. 604
Pounders, C. T. 3367
Poutala, R. T. 12552
Pouteau, S. 4295, 6481, 8562
Poverene, M. 1965
Powell, A. L. T. 12996
Powell, C. A. 3096
Powell, G. L. 7478
Powell, W. 269, 1370, 4765, 5849, 6823, 8255, 8533, 9454, 12607, 13162
Power, J. B. 958, 4342, 5805, 7224, 10377, 11050, 11881
Powers, H. R., Jr. 13304-13305
Powles, S. B. 1629, 2647, 2796, 5928, 8071
Pöykkö, T. 6551
Poynor, E. F. 1649-1651, 2823, 3908-3909
Poysa, V. 10678
Poznański, M. 4805-4806
Prabhakar 11726
Prabhakaran, P. V. 6385, 8034
Prabhu, A. S. 7005-7006
Prabhu, K. V. 252, 1338
Prabhu, L. V. 10331
Pracht, J. E. 9361
Pradesh, V. 12829
Pradhan, A. C. 10333
Pradhan, A. K. 630, 4215, 10841
Pradhan, K. 10326-10327
Pradhan, S. 6055
Pradhan, S. B. 412, 1543
Prado, F. E. 8194
Prain, G. 9448
Prakash, A. 11612
Prakash, A. H. 7350
Prakash, B. G. 12064
Prakash, H. S. 10331
Prakash, K. S. 11365, 12064
Prakash, N. 1502, 9874
Prakash, S. 1956, 8471, 8476, 13127, 13131
Prakash, S. N. 12915
Prakash, V. 5059, 10877, 11105
Prakash Lakshmanan 7538
Pramanik, S. K. 43, 473
Prance, G. T. 7468
Prangnell, R. 2429
Prante, G. 9962
Pras, N. 13390
Prasad, A. 9632
Prasad, G. S. V. 2725
Prasad, K. 1548, 7998
Prasad, L. K. 370
Prasad, M. N. 4887
Prasad, M. V. R. 1982, 4252, 4255
Prasad, R. N. 4984
Prasad, R. R. 619
Prasad, S. C. 3794
Prasad, T. G. 6962
Prasad, T. K. 5984, 10290
Prasanna, B. M. 9101-9103
Prashar, M. 253, 7813
Prashar, P. 8323
Prassad, R. 1334
Prat, D. 13266
Prat, S. 13209
Pratap, P. S. 7172
Pratchett, N. 7837, 10173, 12603
Pratibha Shukla 3978
Pratje, E. 11177
Pratt, L. 7396
Pratt, R. C. 7960, 9159, 11421
Pratt, R. G. 8106
Praveen Bansal 6837
Praznik, W. 7187
Preece, J. E. 7505
Preet, K. 6802
Preez, R. J. du 10818
Preforius, J. 5651
Prehn, D. 8968
Preil, W. 9854
Preininger, É. 8528
Preisig-Müller, R. 7239, 11927
Preiss, J. 3724, 10270
Prem Sagar 376, 10325, 10328
Prem Singh 5059
Premakumari, D. 10987, 12177
Prendergast, H. D. V. 4911
Prentice, H. C. 2192
Prescott, J. M. 12027
Pressey, R. 9487
Pressman, E. 11872
Presterl, T. 10286
Prestes, A. M. 4674
Presting, G. G. 12129
Preston, C. 5928
Pretorius, Z. A. 8932, 8934
Preťová, A. 6525, 7444
Preuss, D. 68, 7635
Prevost, G. 3458
Prevost, T. 698
Price, A. M. 8949
Price, D. N. 5814
Price, G. D. 13229
Price, H. J. 6547, 7409-7410
Price, K. R. 6093
Price, R. A. 2398, 3188, 3368
Price, S. C. 8777
Pricop, M. 4982
Pridgeon, A. M. 9900
Priew, H. 7591
Priilinn, O. 2462
Prikhozhenko, É. Ya. 10864
Prikshit Plaha 4725
Primard, C. 1940, 13126
Primard-Brisset, C. 4207
Pring, D. R. 10307
Pringle, J. S. 3372
Prinsen, E. 910, 13201
Prinzivalli, C. 5483
Prioli, A. J. 2216
Prioli, L. M. 315
Prior, P. 3064, 8339
Priou, S. 2980
Prioul, J. L. 5973
Pritchard, S. C. 13309
Privé, J. P. 5266
Priyono 5440, 7384
Prober, S. M. 2113
Procházka, S. 11322
Prockop, D. J. 8801
Procopovici, E. 7355
Proctor, J. T. A. 5266-5267
Prodanović, G. 4981
Prodanović, S. 28, 4714, 10110
Prodhan, A. K. M. A. 7137
Proebsting, E. 9585
Proebsting, E. L. 13065
Proebsting, W. M. 4310
Proença da Cunha, A. 9932
Proeseler, G. 2566
Proft, M. P. de 9531
Promé, J. C. 557, 7071
Promila Pathak 8713
Prończuk, M. 4839
Prończuk, P. 4839
Prończuk, S. 5626
Prosnyak, M. I. 10207
Prosser, J. 101
Prostakova, Zh. G. 7095
Prot, J. C. 8054
Protić, R. 4714
Protopapadakis, E. E. 13373
Prouty, K. L. 8254
Provart, N. J. 545
Provot, M. 6487
Provvidenti, R. 8203
Prugar, J. 11344
Pruitt, K. D. 58, 1017, 6585, 11076
Pruneddu, G. 5489
Prus-Głowacki, W. 984, 2140, 13301
Prusakov, A. N. 6715
Prusiński, J. 654
Prusty, R. 11665
Pryor, A. 1468
Pryor, T. 7909
Przewoźny, T. 5910
Przyborowski, J. 10706
Przybylska, J. 538
Przywara, L. 9504, 11673
Ptak, B. 2495
Pu, H. M. 10838
Pu, L. M. 409
Pu, X. L. 7034
Pua, E. C. 836, 7321
Puangsomlee, P. 8815
Puchalski, B. J. 7808
Puchalski, C. 5231
Puchta, H. 4294
Pudełko, J. 11675
Pudelska, H. 158
Pueppke, S. G. 8010
Puertas, M. J. 3697, 12644
Pueyo, E. 5293
Pugalendhi, L. 3432
Pugliesi, C. 5384, 8496
Pugnaire, F. 30
Pühler, A. 4997-4998, 9973, 11681
Puigdomènech, P. 3710, 9200, 12661
Puite, K. J. 8259, 10572
Pujol, G. 4587
Pukhal'skiĭ, V. A. 4773, 9734
Pukkila, P. J. 1065, 2245
Pulford, W. M. 3126
Pulkkinen, P. 6532
Pulli, S. 2438, 10602, 11278, 11291, 12034
Pullman, G. S. 9826
Pundhir, V. S. 5111
Pundir, R. P. S. 1748, 1754, 2922
Pundir, S. R. 1769, 10558
Punja, Z. K. 13042
Punt, P. J. 1064
Puodžiūkas, J. 2841
Puolimatka, M. 1384
Puonti-Kaerlas, J. 1730
Pupilli, F. 2829, 9281
Purba, E. 5928
Purdie, K. A. 2472, 3601, 8870
Puri, S. N. 7421
Purivirojkul, W. 11610
Purnell, R. C. 9818
Purnhauser, L. 3567, 4693, 5879
Purser, D. B. 7054
Purugganan, M. D. 2318
Purwantara, A. 9716
Puschmann, G. 7552
Pushpalatha, K. N. 8988-8989
Pushpalatha, P. B. 9655
Pushpangadan, K. 6385
Pushpendra 2852
Pusztai, A. 632
Putievsky, E. 7556
Putnam, D. H. 7062
Putterill, J. 11212
Putz, G. 139, 847
Puupponen-Pimiä, R. 971
Puy, D. J. du 7069
Pyke, K. A. 5783
Pyke, N. B. 3126, 9608
Pyl'nev, V. V. 210, 1300, 4684, 4697
Pyl'neva, E. V. 4684, 4758
Qadar, A. 1592, 11350
Qamaruddin, M. 5596, 8640
Qi, A. 512, 10532, 11778, 11782, 12838, 12843-12844
Qi, C. K. 10838
Qi, J. M. 2103
Qi, J. R. 799
Qi, L. L. 1283
Qi, L. Z. 2119
Qi, M. Q. 1139
Qi, R. A. 7255
Qi, X. F. 433, 6044, 10342, 10366
Qi, Y. J. 7263
Qi, Y. K. 9737, 12161
Qi, Y. T. 11936
Qian, D. S. 10962
Qian, H. 9204
Qian, H. R. 9202
Qian, M. 399
Qian, N. F. 10813
Qian, Q. 3828
Qian, S. Y. 10978
Qian, W. J. 118
Qian, X. Z. 12042, 13129
Qian, Y. Q. 1401, 8432
Qian, Y. T. 2442, 11624
Qian, Z. G. 1687
Qiang, H. F. 11553
Qiao, C. G. 4232
Qiao, X. B. 7034
Qiao, Y. K. 8904
Qiao, Y. M. 4676
Qiao, Y. X. 10560
Qin, G. M. 791
Qin, G. W. 282
Qin, R. Z. 431
Qin, S. P. 3613
Qin, W. S. 3860
Qin, X. 4092
Qin, X. A. 166
Qin, X. F. 10925
Qin, X. Y. 12039
Qiu, J. 3934, 4965
Qiu, L. J. 1707, 6119, 11696
Qiu, R. H. 3819, 6034
Qiu, X. M. 6029
Qiu, Y. L. 2398-2399, 11007
Qu, G. M. 10741
Qu, L. H. 3561
Qu, Y. L. 2741
Qu, Z. 12084
Quagliariello, C. 4230
Quail, P. H. 65, 72, 78, 5930, 6966, 7639, 7864, 10013, 10022
Quaino, O. R. 11524-11525
Quaite, F. E. 6919
Qualset, C. O. 4667, 5891, 7705, 8084, 8933
Quan, G. 11030
Quandt, H. J. 11681
Quarcoo, E. 5926
Quarrie, S. A. 324, 5892, 6828, 9960
Quarta, R. 11974
Quatrano, R. S. 8818
Quattrocchio, F. 4439
Que, G. S. 3850
Queiroga, V. de P. 7412
Queirós, M. 12461
Quellar, D. C. 7663
Querol, D. 1079, 13417
Quesada, M. A. 5171, 9547
Quétier, F. 4484, 7733
Qui, Y. D. 12157
Quick, J. S. 174, 1327, 2475, 5890
Quick, W. P. 6256, 6493, 8557, 13226
Quicke, D. L. J. 4521
Quigley, F. 308, 1156
Quijano-Rico, M. 10923
Quillien, L. 4973-4974
Quin, H. R. 3815
Quinn, C. J. 2398, 5610
Quinn, J. S. 10588
Quiñones, V. 142, 12931
Quiring, D. 2146
Quiring, D. T. 12873
Quiros, C. F. 649-650, 1781, 4041, 4043, 9527
Quisenberry, S. S. 9241-9242, 9262, 10390
Qureshi, M. 2208
Qureshi, R. H. 1594, 6994
Qvarnström, K. 8666, 11051
Ra, R. 971
Raageeva Bimal 396
Rabakonandrianina, E. 12922
Rabbani, A. 7406
Rabindra, R. J. 5733
Rabinowitch, H. D. 681, 9515, 9553, 10683, 12969
Raboin, L. M. 4287
Rabot, B. 2983
Raboy, V. 1403, 6139, 11445
Racchi, M. L. 4833, 9097
Raczyńska-Bojanowska, K. 297

Radcliffe-Smith, A. 7471
Radek, J. 7376, 10903, 10905
Radha, M. R. 3979
Radhakrishnaiah 2227
Radhakrishnaiah, M. 9851
Radhakrishnan, T. 3238
Radhakrishnan, T. C. 5310, 6405-6406
Radhika, K. 12040
Radicati, L. 8457
Rading, I. M. 8470
Radionenko, M. A. 8114
Radix, P. 3183
Radková, L. 7376, 10903, 10905
Radojevic, I. 9252
Radošević, J. 7084
Radosta, P. 13321
Radu, A. 6891, 6891
Radunz, A. 2068
Rae, D. 12205
Raelson, J. V. 11688
Rafalski, A. 8987
Rafalski, J. A. 2338, 5751, 6125
Rafi, M. 10152
Rafi, M. A. 644
Rafi, M. M. 7758
Rafii, Z. A. 2115-2116, 6537
Ragab, M. H. 7417
Ragan, M. A. 2397
Rageeva Bimal 2220
Raghavan, V. 396, 2220, 6596
Raghavendra, A. S. 8799
Ragheb, H. M. 10127
Raghothama, K. G. 5450, 13234
Raghunath, K. 7362
Raghunatham, G. 12095
Ragot, M. 2341
Raguz, S. 4503
Raheja, A. K. 8232
Rahimbaev, I. 280
Rahimi, F. R. 6282
Rahman, A. 1941, 2918
Rahman, L. 11103, 13133
Rahman, M. 2918
Rahman, M. A. 960, 10535
Rahman, M. H. 13133
Rahman, M. L. 7137
Rahman, M. M. 8206, 10535, 10542, 13099
Rahman, M. S. 3682
Rahman, M. T. 694
Rahman, S. M. 4902, 5325, 10826
Rahmes, J. N. 12638
Raho, G. 6841
Rai, B. 151, 1937, 1952
Rai, K. N. 1493, 1497, 6003, 9189, 12701
Rai, L. 10451
Rai, M. 5015, 5343, 5706
Rai, P. N. 11876
Raibuh, A. 6897
Raikhel, N. V. 1114, 4581, 4815, 4820, 7623
Raĭlyan, V. Ya. 1427
Raina, G. L. 12762
Raina, R. 1758, 7887, 9049
Raina, S. N. 961, 9383
Raine, C. A. 1032
Raineri, D. M. 2670
Raineri, F. 7730
Raines, R. T. 4582
Rainey, W. E. 9990
Rais Ahmad 2015
Raissac, M. de 6032, 9214
Raizada, M. 3743, 9019
Raizada, R. K. 5744
Raj, A. 12377
Raj, H. 7244
Raj, R. B. 2692, 6904
Raja 2940
Raja, V. D. G. 9230
Rajagopal, V. 6401, 12072
Rajagopalan, A. 6400
Rajagopalan, A. V. 8799
Rajagopalan, R. 7295
Rajamani, K. 801, 2171
Rajamony, L. 5310, 11909
Rajan, S. 4182
Rajanaidu, N. 4239, 12066, 13148
Rajaram, S. 256, 6770, 7783, 7785, 8918, 8927, 8930, 10139-10140, 12495, 12517
Rajarathinam, S. 5504, 9230
Rajasekaran, S. 11591
Rajasekhar, V. K. 3492
Rajashekar, C. B. 9600
Rajasubramaniam, S. 13113
Rajbir Yadav 1496, 6959, 10328
Rajeevan, M. S. 4303
Rajeevan, P. K. 8439
Rajendra, M. M. 10545, 10547
Rajendran, C. M. 11774
Rajendran, P. C. 10700
Rajesh Mishra 3976
Rajesh Pandya 3801
Rajesh Yadav 205
Rajeshwari, R. 11536
Rajeswari, S. 12783
Rajeswari, V. R. 591, 3989
Rajewar, S. R. 4332
Rajewski, J. F. 6957
Rajgopal, K. 3237, 3239
Rajnchapel-Messaï, J. 3031, 4222
Rajni Raina 1758
Rajpali, S. K. 461
Rajpurohit, T. S. 10893
Rajput, C. B. S. 6285
Rajput, M. A. 6221
Raju, A. R. 578
Raju, D. S. 11537
Raju, T. N. 3978, 10544, 10546
Rakha, F. A. 9087
Rakitina, T. Ya. 1164
Rakoczy-Trojanowska, M. 13038
Rakotomalala, J. J. R. 4284
Rakotovao, R. 7582
Rakow, G. 818-820, 1930-1931, 8482, 13135
Rakowska, M. 2619
Ralambosoa, J. 9668
Ralhan, P. K. 1321
Ralph, W. 6074, 6218, 6355, 6441
Ralston, E. 9040
Ralston, M. 9040
Ram, A. S. 6468
Ram, B. 5415, 9153
Ram, H. H. 1692, 1703, 2852
Ram, H. Y. M. 12910
Ram, M. 4186
Ram, R. S. 10526
Ram, S. 5114
Ram, T. 424, 10362
Ram Bhajan 2000
Ram Kumar 9416, 10524, 12891
Ram Nath 4995
Ram Niwas 10524, 12891
Ram Singh 12912
Ramachandraiah, D. 12096
Ramachandram, M. 6426
Ramachandran, K. 9924
Ramachandran, M. 6468
Ramachandran, T. K. 5393
Ramadan, N. A. 5436
Ramadas, S. 7222, 7233, 7242
Ramaiah, D. K. 9441
Ramaiah, P. K. 6468
Ramakishana, W. 11574
Ramakrishna, W. 12715
Ramakumar, P. V. 12041
Ramalho, J. D. C. 10442
Ramalho, M. A. P. 4622, 5028, 7099, 11420, 11546, 11737, 12707, 12872
Ramalingam, J. 577, 1564, 7127, 8213, 10365
Ramalingam, R. S. 1492, 1499-1500, 1504, 12078, 12078
Ramamonjisoa, D. 9976, 11802
Ramamoorthy, J. 6467
Raman, H. 7247, 7305
Raman, K. V. 4010, 11844
Raman, V. K. 4011
Raman Kapur 2934
Raman Rai 8205
Ramana, K. V. 9931
Ramana, R. V. 5193
Ramanathan, T. 1973
Ramanauskas, V. 3358
Ramani, S. 491, 1681
Ramanjulu, S. 7299
Ramanna, M. S. 3998, 5175-5176, 9457, 9543, 11812
Ramarao, P. 12696
Ramasamy, P. 9447
Ramasamy, R. 7295
Ramawat, K. G. 1049
Rambal, S. 7294
Rambaud, C. 5161
Rameau, C. 12988
Rämert, B. 11051
Ramesh, B. 1680, 11764
Ramesh, B. R. 8451
Ramesh, K. 3241, 10883
Ramesh, S. 13397
Ramesha, M. S. 9066
Ramírez, A. 6043
Ramírez, D. 7190
Ramírez, L. 462
Ramírez-Carrillo, R. 4501
Ramírez de Carnevali, I. 4456
Ramírez Hernández, A. 5030
Ramírez Legarreta, M. R. 9392
Ramírez Maldonado, H. 5526
Ramírez Valverde, B. 812
Ramming, D. W. 4134, 11943, 13057
Ramnath, S. 5510
Ramo, T. 1366, 12618
Ramoneda, J. 9634
Ramos, J. A. de O. 2891
Ramos, N. 3891
Ramos, V. J. 4739
Ramos-Cormenzana, A. 12291
Ramos Santana, R. 8086
Ramsay, G. 5014
Ramsbottom, J. E. 5889
Ramsey, A. D. 8312
Ramsey, K. P. A. 1050
Ramsey, M. 9874
Ramsey, M. D. 3068
Ramteke, S. D. 12086
Ramtirthkar, M. S. 8499-8500
Ramulu, K. S. 8259, 10572
Rana, D. K. 1619, 3864
Rana, H. S. 3133
Rana, M. K. 1816
Rana, M. S. 10579
Rana, N. D. 8156
Rana, O. S. 10981
Rana, R. K. 3641
Rana, R. S. 1098, 1873, 4166, 4644, 5345, 6639, 8137
Ranabahu, P. 6102
Ranade, S. 8199
Ranaivoson, L. 10992
Ranalli, A. 12074
Ranalli, P. 1688, 4279, 11745
Ranaweera, K. K. D. S. 872
Ranbir Singh 5345
Rancé, I. M. 12744
Rančelienė, V. 3288
Rančelis, V. 2589-2591
Randall, J. D. 927
Randall, P. J. 3445, 3644-3645, 7328
Randhawa, A. S. 249
Randhawa, G. J. 5099
Randhawa, H. S. 1507, 7795, 12567, 12702
Randhawa, L. S. 3318, 3324
Randhawa, S. S. 4116
Randle, W. M. 9513, 13332
Randrianasolo, A. 13290
Ranganatha, A. R. G. 12095, 13170-13171
Ranganathan, T. B. 6979, 8025, 11592, 12713
Rangappa, M. 3963, 9378, 11716
Rangasamy, M. 4887
Rangasamy, P. 577, 1564, 7148, 8213, 10365, 11774
Rangasamy, S. R. 4891
Rangasamy, S. R. S. 2095, 5732, 5993, 8025, 12169
Rangaswamy, K. T. 8215
Rangaswamy, M. 11550
Rangaswamy, N. S. 5377
Rangil Singh 7133
Ranieri, R. 3683
Ranjan, K. S. 10296
Ranjana Luthra 2013
Ranjana Sharma 9691
Ranjekar, P. K. 11574, 12715
Ranjel, H. 2002
Ranjith, A. M. 7420
Rank, D. R. 10254
Ranker, T. A. 7454, 12441
Ranković, M. 3139, 7258, 7273
Ranvir Singh 11779
Rao, A. M. M. 1969
Rao, A. S. 1497
Rao, A. V. 5193
Rao, A. V. S. 1568
Rao, B. G. 8748
Rao, B. P. 11365
Rao, B. R. R. 11100
Rao, B. S. 6115
Rao, C. D. 8619
Rao, D. G. 1111
Rao, D. M. R. 1992
Rao, E. V. S. P. 13397
Rao, E. V. V. B. 6372, 6402
Rao, G. K. 2692, 4871, 6904
Rao, G. P. 1997, 8519
Rao, G. S. L. H. V. P. 6396, 6400, 6403
Rao, G. U. 13131
Rao, I. N. 8055
Rao, J. 11612
Rao, J. N. 1754
Rao, J. P. 1999, 2019
Rao, J. V. R. B. 1999, 2019
Rao, K. B. 6609
Rao, K. E. P. 6947
Rao, K. P. 1999, 10330
Rao, K. S. 3844
Rao, K. V. 162, 8035, 9127
Rao, K. V. M. 6212
Rao, K. V. P. 9404
Rao, M. J. B. 3849
Rao, M. K. 1999, 2019
Rao, M. R. G. 3775, 6996
Rao, M. V. 10124
Rao, M. V. B. 1767, 12035, 12040-12041
Rao, M. V. R. 7985
Rao, M. V. S. 6687
Rao, N. K. S. 8336, 10669
Rao, P. N. 371, 876
Rao, P. P. 4650
Rao, P. R. T. 5563
Rao, P. S. 8055, 10332, 12008, 12297
Rao, P. S. K. 863
Rao, P. S. N. 2124
Rao, P. V. L. 12237
Rao, P. V. S. 13169
Rao, R. 9382
Rao, R. C. N. 1073, 6418, 6425, 10876
Rao, R. H. 12087
Rao, R. R. 12783
Rao, S. A. 377, 6640, 6722
Rao, S. K. 3976
Rao, S. P. 1549
Rao, S. S. 10419, 10557
Rao, T. K. V. V. M. 1999, 2019
Rao, U. P. 2725, 3863, 7012
Rao, U. R. 6359, 10862
Rao, V. 13148
Rao, V. L. V. P. 7009
Rao, V. P. 9189-9190
Rao, V. R. 1981, 1999, 2019, 3102, 6413-6414, 8055
Rao, Y. P. 3243
Rao, Y. S. 6687, 7985
Rao-Arelli, A. P. 6142, 10492
Raoof, M. A. 7343
Rapoport, H. F. 4243
Rapoport, I. A. 5796
Raposo, R. 8274
Rapp, J. C. 5914
Rapp, W. D. 9979

Raquin, C. 8602
Rascio, A. 1328
Rascio, N. 9589
Rasco, E. T., Jr. 1870
Rashal', I. 2635
Rashid, A. 1415, 13135
Rashid, K. Y. 2881, 3332, 9678
Rashid, M. A. 694, 13278
Rashid Hussain 11346
Rask, L. 843, 4204, 4208
Rasmuson, M. 4618
Rasmussen, J. L. 3723, 5481
Rasmussen, K. 10711
Rasmussen, N. 6269
Rasmussen, P. E. 2568
Rasmussen, S. K. 1342, 5926
Rasmusson, D. 4770
Rasmusson, D. C. 10158
Rassokha, S. N. 1845, 11896
Rastogi, R. 4063
Rastogi, V. K. 3486
Ratcliffe, R. H. 8946
Ratet, P. 12813
Rathcke, B. 2160
Rathi, Y. P. S. 3978, 10539-10541, 12884
Rathinasabapathi, B. 12146
Rathjen, A. J. 2513, 10525
Ratho, S. N. 412
Rathod, T. H. 7136, 10871
Rathore, D. S. 4167
Rathore, P. K. 552, 6188, 7114
Rathore, S. S. 342
Rathus, C. 2006
Ratiani, N. 4528
Ratisoontorn, P. 6985, 8027, 11886
Rat'kin, A. V. 7511
Ratnasinghe, D. S. 4261
Ratner, V. A. 4553
Rattan, R. S. 3016
Ratti, N. 5515
Rattigan, E. M. 12407
Rattner, J. B. 1189
Rattunde, E. W. 6961
Ratuszniak, E. 2945
Ratzlaff, C. D. 9265
Rauber, M. 9507
Rauch, T. L. 3616, 8884
Rauf, A. 4726
Raupp, R. O. 4829
Raupp, W. J. 6813, 8939
Rausch, T. 3351
Rausher, M. D. 2190, 4433, 12254
Raut, B. R. 7151
Raut, N. D. 589, 3986
Raut, N. K. 8580
Raut, R. N. 9672, 12051
Raut, S. B. 9426
Raut, S. K. 3599, 9171
Raut, S. S. 862
Raut, V. M. 7091-7092
Rautenkranz, A. 11683
Ravaglia, S. 2494
Raveendran, T. S. 1980, 5393
Ravel, C. 456, 10395
Ravelonandro, M. 3302, 3310, 5446, 10947
Raventós, D. 11500
Ravetkar, D. M. 1075
Ravi 1572, 6987-6988
Ravid, U. 7556
Ravikumar, R. L. 380, 7358
Ravindra, V. 4262
Ravindran, P. N. 6611, 7550, 9925, 9927, 9931
Ravisankar, C. 2233
Ravish Chatrath 6764, 7788
Ravishanker, G. A. 9929
Rawat, D. S. 834
Rawat, S. R. 12715
Rawlins, D. J. 5800, 12890
Rawlins, M. 5773
Rawlinson, C. J. 10852
Rawson, H. M. 3617
Ray, P. 5122
Ray, P. K. S. 1591, 10370
Ray, S. S. 208
Rayburn, A. L. 320-321, 3608, 4689, 11407, 11712, 12668, 13333-13334
Rayfuse, L. M. 3632, 7031, 12520
Rayle, D. L. 8154
Raymer, P. 9010
Raymer, P. L. 3564, 3570, 4201-4202, 4651
Raymond, C. A. 13264
Raymond, J. 12917
Raymond, O. 8664
Raymond, R. D. 3465
Raynal, M. 1156, 1812, 5353, 5775
Rayner, R. J. 1223
Raynor, W. C. 6331
Rayns, F. W. 5808-5811, 5813
Razdan, M. K. 9947
Raziuddin 3970
Ražukas, A. 2950
Razzaq, Z. A. 1021
Razzaque, A. H. M. 12079
Read, J. J. 4925, 8075
Read, M. 2062
Read, M. D. 8755
Read, N. D. 1143
Read, P. E. 1725, 3962
Read, S. M. 6486, 8551
Reader, S. M. 2472, 3601, 4754, 6763, 8870
Reagan, T. E. 3265
Real, L. 2160
Reaney, M. J. T. 1254, 12808
Reavey, C. 12936
Reavy, B. 4312, 12944
Rebaï, A. 2370, 12428
Rebeiz, C. A. 11252
Rebelo, J. A. 7278
Reboud, X. 6667, 6693
Rechinger, K. B. 3677
Récipon, H. 6743
Recupero, S. 5274
Redaelli, R. 2493, 3636, 4652, 7730
Redden, R. J. 539, 2889
Reddington, B. D. 8118
Reddy, A. S. 2729, 10856
Reddy, A. S. N. 44, 4812
Reddy, C. D. R. 422, 10374, 10890, 12096
Reddy, D. D. R. 363
Reddy, D. M. 7136, 9223, 10871
Reddy, G. L. K. 9689
Reddy, G. M. 162, 4801, 6042, 9127, 11285
Reddy, G. V. 2922
Reddy, J. N. 1560, 1568
Reddy, K. B. 5402
Reddy, K. H. P. 11452, 11465
Reddy, K. N. 1748, 6722
Reddy, K. R. 4257, 10968
Reddy, K. R. K. 1997
Reddy, K. S. 12096, 12923
Reddy, K. V. 4065
Reddy, L. J. 1981, 7367
Reddy, M. D. 437
Reddy, M. J. 6609
Reddy, M. K. 4082
Reddy, M. S. 2227
Reddy, M. S. S. 9689
Reddy, M. V. 2931, 3978, 8139, 8210, 10539, 10544, 10546
Reddy, N. S. R. 8055
Reddy, P. C. 6040, 7350, 10385
Reddy, P. R. 9689
Reddy, P. S. 9950, 12085
Reddy, S. K. 1969
Reddy, T. P. 1992, 3253
Reddy, V. D. 162, 4801
Reddy, V. G. 4332
Reddy, V. R. K. 298, 1744, 2558, 3576, 3700, 6729, 6731, 6872, 7121, 8988-8989
Reddy, V. V. P. 4065
Reddy, Y. T. N. 1917
Reddy, Y. V. R. 363, 7980
Redenbaugh, K. 4070
Red'ko, V. V. 12313
Redpath, S. H. 9401
Reed, B. M. 765, 13072
Reed, D. K. 2803
Reed, J. D. 364
Reed, J. W. 10023
Reed, K. F. M. 9296
Reed, S. M. 6482
Rees, H. 88
Rees, R. G. 8970
Rees, T. ap 7686
Reese, P. F., Jr. 1700
Reeves, A. F. 11798-11799
Reeves, D. L. 4790
Reeves, J. 594
Regan, K. L. 3649, 4655-4656, 12559
Regazzi, A. J. 11418
Reger, B. J. 11535
Reghu, C. P. 12179
Reginato, G. 13086
Reglinski, T. 2440
Regnard, J. L. 10759
Regner, F. 5467
Regy Lukose 6611
Rehling, P. 66
Rehman, F. U. 8041
Rehman, K. 5872
Rei, F. T. 4246
Reich, P. B. 2139, 13299
Reichenbacker, R. R. 5544
Reid, A. 4834, 7503
Reid, D. A. 3439
Reid, D. M. 8498
Reid, J. 7611
Reid, J. B. 549, 972, 6181, 6184-6185, 7111, 9403, 11755, 11758, 12894-12895
Reid, L. M. 7957, 7961
Reid, R. 2279
Reid, W. 817
Reif, H. J. 3298
Reifschneider, F. J. B. 1433, 4097, 8345
Reijnen, W. 2061
Reiländer, H. 12976
Reilly, C. C. 745, 758
Reimann-Philipp, U. 3303, 10950
Reimers, J. F. 6453
Reimers, P. J. 3856
Reimlein, E. 11362
Reinbothe, C. 5909
Reinbothe, S. 5909
Reinders, M. C. 8709
Reinecke, D. 7644
Reinecke, J. 5966
Reinink, K. 7204, 9529, 10650, 10654
Reinke, R. 9197
Reinold, S. 2872
Reis, F. P. 5141
Reis, M. de Souza 6964
Reis, M. S. 511
Reisch, B. 9549
Reiser, L. 3545, 7642
Reiss-Bubenheim, D. 2266
Reist, R. 7403
Reiter, R. S. 64, 1154, 5782
Rek, J. 11792
Rek-Ciepły, B. 2619
Rekha Garg 3984
Rella, M. G. 2075, 2266, 5464, 5742
Rema, J. 7550, 9926-9927
Rema Menon 2231
Remetz, E. 681
Remmelg, H. 2653
Rémy, R. 606, 2065
Remy, S. 6317
Ren, C. F. 10360
Ren, C. M. 8581
Ren, J. H. 10560
Ren, J. P. 9938
Ren, L. 7521
Ren, Q. M. 8381
Ren, S. X. 4400
Ren, Z. 7740
Renard, M. 1940, 4226, 9668, 12037, 13132, 13421
Renaud, R. 3130, 3137, 5244
Renelt, A. 3435
Renfro, B. L. 12683
Renganayaki, K. 7139, 11784
Rennenberg, H. 9951
Renner, S. S. 4634
Rennes, C. 7291
Rensburg, G. D. J. van 350
Rensburg, J. B. J. van 350, 3769
Rensburg, L. van 934, 8560, 9728, 10938, 13231
Rensing, S. A. 8855
Rentel, D. 295
Renu Edwin 6872
Renvoize, S. A. 10410
Repcak, M. 13386
Repellin, A. 13155
Repiská, V. 10165-10166
Repka, J. 11345
Rerie, W. G. 12415
Rerkasem, B. 1711, 2512
Reshetnik, L. A. 2023
Reshetnikov, V. N. 6709, 10268
Resnik Čepon, M. 10427
Restaino, F. 688, 706, 10695
Retana, J. 9634
Rethinakumar, L. 6378
Rethinam, P. 6381
Rettig, J. H. 2398
Rettke, M. L. 1474
Reupold-Popp, P. 6495
Reust, W. 10600
Reutova, N. V. 2855
Reuven, M. 3399, 3401, 3403
Reuveni, O. 4173
Reuveni, R. 2689
Revanna, H. P. 6053
Revell, D. F. 3178
Revhaug, V. 4411, 12241
Revilla, P. 11512
Revue Suisse d'Agriculture 11305-11307, 11797
Rey, P. 3806
Reyes, B. G. de los 8016
Reyes, L. M. 1807
Reynaerts, A. 683, 2348
Reynaud, B. 348
Reynders-Aloisi, S. 13061
Reynolds, M. P. 8890
Reynolds, P. H. S. 8118, 11682
Reynolds, T. L. 43, 4692, 7623
Reynolds, W. K. 10179
Reysack, J. J. 3685
Reyss, A. 5973
Rezanoor, H. N. 2472
Rezende, G. D. S. P. 4622
Reznicek, A. A. 13364
Rhee, M. D. van de 6504
Rhee, S. Y. 7635
Rheenen, H. A. van 565, 1747, 2925, 10543
Rhew, T. H. 2356
Rhoads, D. D. 8050
Rhoads, R. E. 184
Rhode, A. 7436
Rhodes, B. 11913, 13035-13036
Rhodes, B. B. 4106, 11914
Rhodes, C. 5989
Rhodes, I. 11671
Rhodes, O. E., Jr. 8832
Riaz, M. 1617, 1620
Riazuddin, S. 10531
Ribeiro, N. D. 4829, 11740
Ribeiro Júnior, J. I. 5038
Ribnicky, D. M. 150
Ricaud, C. 5407, 10897
Riccardi, F. 6540
Ricco, R. A. 1676
Rice, G. 12246
Rice, J. S. 4929
Rice, K. J. 10997
Rice, R. P., Jr. 5703
Rice, W. R. 11262
Rich, P. J. 6931
Richard, M. 12226
Richards, A. J. 9183
Richards, D. 13329
Richards, K. D. 11355
Richards, L. A. 8378
Richards, P. G. 8690
Richards, R. A. 3445, 3617, 3619, 11273
Richardson, D. H. S. 1045

Richardson, M. 588, 5044
Richardson, M. D. 9157
Richardson, P. E. 2569
Richardson, T. E. 2182, 3393
Richaud, F. 12067
Richerd, S. 4630
Richman, A. 9025
Richter, G. 4588
Richter, H. 1324
Richter, J. 1629
Rickards, G. K. 9506
Rickauer, M. 6279
Ricketson, C. L. 766
Rickman, R. W. 8945
Rico, M. L. 8613
Rico Arce, M. de L. 8613, 9795, 9799
Ricroch, A. 7189
Riddle, C. S. W. 5027
Riddoch, B. J. 6716
Ridé, M. 8606
Ridé, S. 8606
Ridley, A. M. 2820
Ridout, M. S. 13049, 13052
Ried, J. L. 12310
Riedel, L. 9723
Riedel, L. G. H. 11956
Riedell, W. E. 3770
Riedl, H. 5240
Rieger, R. 6825, 13310
Riemen, G. 11177
Riemenschneider, D. E. 974
Rieping, M. 5767, 13209
Riera-Lizarazu, O. 3607
Ries, S. M. 738, 3120
Rieseberg, L. H. 100, 6718, 11184
Riesmeier, J. W. 3999, 8246, 10568, 11821
Riess, R. W. 3733
Rietveld, R. C. 5102
Rieu, A. 4105
Rigau, J. 3710
Riggall, W. 3052
Riggin, T. M. 6910
Riggs, C. D. 2208
Rigney, L. P. 4444, 6714
Rigr, A. 9942
Rihawi, S. 4764
Říhová, L. 2064, 2072
Rijkenberg, F. H. J. 2694, 9713, 10512
Rimle, R. 12493
Rimmer, S. R. 8485, 9659
Rinaldi, R. 8694
Rincón, J. 5068
Rines, H. W. 3687, 4786, 4789, 6860-6861, 11404
Ring, D. R. 3330, 9754
Rinne, R. W. 9078
Rinsma-Melchert, I. 5763
Rinzin, P. 10424
Rio, D. C. 4555
Río, L. A. del 10923
Río, M. del 3221
Ríos B., M. J. 1719
Rioux, S. 10134
Riseborough, S. 5122
Risi, E. de 5457-5458
Risius, M. L. 10159
Risterucci, A. M. 2048, 8537, 9714
Risueño, M. C. 1138, 8850
Ritala, A. 5905
Ritchie, D. F. 4144
Ritchie, S. W. 12657
Ritland, C. E. 5643
Ritland, K. 999, 1200, 4463, 5643, 9866, 12434
Ritter, C. 1166, 4596, 5787
Ritter, D. 8572
Ritter, E. 2976, 3269
Rivalta, L. 5238, 5250
Rivard, S. 8243
Rivard, S. R. 11815
Rivera, D. 2228
Rivera, E. 1912
Rivera, R. 10047
Rivera-Amador, E. 11858
Rivera-Peña, A. 2990
Rivero, M. 1676
Rives, M. 7235
Rivière, F. 5976
Rivin, C. 7917, 7927-7928, 7968, 9083
Rivista di Frutticoltura e di Ortofloricoltura 5275-5277
Rizza, F. 2433, 7855, 11392
Rizzardi, M. A. 5390-5391
Rizzi, E. 1460
Rizzo, M. 5255
Rizzoni, M. 4613
Roach, B. T. 2020-2021
Roach, D. A. 8861
Roach, S. H. 9747
Roane, C. W. 8949, 9375
Roasti, P. 2309
Roath, W. W. 6431
Robaglia, C. 6666
Röbbelen, G. 10839, 10850
Robbertse, P. J. 12018
Robbins, M. P. 1675, 8121
Robbins, T. P. 13366
Robbins, W. A., Jr. 4845
Roberds, J. H. 7669, 9767
Robert, L. 7743
Robert, L. S. 3589, 4210, 5354
Robert, N. 12432
Robert, T. 1505
Robert, Y. 2998
Roberts, C. 8558
Roberts, C. A. 1674, 9256, 11646
Roberts, D. R. 7485, 11030
Roberts, E. H. 15, 512, 5835, 10532, 11768, 11778, 11782, 12838, 12843-12844
Roberts, J. A. 147, 5365-5366, 9613, 12997
Roberts, J. J. 176, 4662, 5896
Roberts, K. 1801
Roberts, M. 4593
Roberts, M. R. 6339
Roberts, P. A. 3327
Roberts, T. W. 5719
Robertson, A. G. 7017
Robertson, A. J. 11163, 12808
Robertson, A. W. 9873, 13354
Robertson, C. A., III 10475
Robertson, D. S. 3720, 3726, 3736, 9030, 9042, 9055, 9080, 9085, 10249
Robertson, J. A. 745, 8402
Robertson, K. R. 11252
Robertson, L. 3588
Robertson, L. D. 529, 6152, 8169
Robertson, S. 8308
Robinson, C. 2196
Robinson, D. J. 8567
Robinson, D. K. 7972
Robinson, D. L. 532
Robinson, D. W. 995
Robinson, F. E. 7431
Robinson, H. F. 11700
Robinson, K. 4426
Robinson, K. E. P. 8680
Robinson, N. J. 4571, 5709
Robinson, R. A. 2311
Robinson, R. W. 11917, 13421
Robinson-Beers, K. 2385
Robledo, M. T. 11446
Robson, F. 11212
Robson, P. R. H. 80
Roby, D. 4597
Roca, A. 4796, 8980
Roca, W. M. 3020, 8123, 11743
Rocat, D. A., Jr. 13152-13153
Rocha, J. 8263
Rocha e Silva, M. 6893
Rocha Júnior, L. S. 3650
Rocha Leal, N. 1875
Rocha-Sosa, M. 6232
Roche, L. 968, 5226-5227
Roche, R. 12893
Rocheford, T. R. 4846, 7942-7943, 11473, 12659
Rochelle, P. 4498
Rocholl, M. 5760, 8491
Rocipon, M. 1821
Rock, M. J. 8801
Rockhold, D. R. 11800, 11806
Rockwood, D. L. 9782
Rod, J. 12327
Rodd, V. 7834
Rode, A. 6743
Rodenburg, K. W. 5756
Röder, F. T. 8545
Röder, M. S. 7732
Roderick, H. W. 5936
Rodermel, S. 10230, 12125
Rodermel, S. R. 6493, 8555, 8557, 11216, 13226
Rodet, G. 5304
Rodeva, R. 7801
Rodeva, V. 5188
Rodier, A. 348
Rödin, J. 4208, 4301, 5352
Rodman, J. 3188
Rodolphe, F. 12212-12213, 12428
Rodriges, F. 9389
Rodrigo, A. G. 2396-2397
Rodrigo, I. 664
Rodrigues, C. H. 8170
Rodrigues-Ballesteros, O. R. 3765
Rodríguez, A. 3704, 9415, 12953, 12960, 12960, 13328
Rodriguez, A. P. M. 13118
Rodríguez, F. 2901
Rodríguez, J. 979
Rodríguez, M. 12338-12340
Rodríguez, R. 8490
Rodriguez, R. L. 3805, 8012
Rodríguez-A., J. 751, 11983
Rodríguez Arroyo, J. E. 8086
Rodriguez-Cobos, C. 4748
Rodríguez de Cianzio, S. 11709
Rodríguez-García, M. I. 13156
Rodríguez-Herrera, R. 6914, 6921, 6927-6929, 6945
Rodriguez Jurado, D. 4243
Rodriguez-Mendiola, M. 1043
Rodríguez Pastor, C. 8441
Rodríguez Pérez, J. E. 6750
Rodríguez Ramírez, I. 516
Rodríguez Ruiz, F. 812
Rodríguez-Suárez, R. J. 8468
Rodríguez Zavaleta, C. 5386
Roebbelen, G. 3186
Roekel, J. S. C. van 663
Roelfs, A. P. 4662, 6800, 8936-8937
Roennberg-Waestljung, A. C. 5551
Roepstorff, P. 9710
Roesler, K. R. 12400
Roff, D. A. 11232
Roffat, C. 8284
Rogall, G. 7594
Rogalska, S. 8983, 8995
Rogan, G. J. 5755
Rogers, D. E. 11343
Rogers, H. J. 3708, 5834, 9721
Rogers, J. C. 155, 11375
Rogers, S. M. D. 7535, 8090
Rogers, S. W. 155, 11375
Rogers, W. J. 233, 3597
Roggen, P. M. van 7120
Roggero, P. 2875
Roginskiĭ, A. V. 2153
Rognli, O. A. 10398
Rognon, F. 10872
Rogowsky, P. 6871
Rogstad, S. H. 8617
Rohde, W. 2953
Rohe, M. 11178
Rohfritsch, O. 6507
Rohilla, J. S. 4653
Rohitha, B. H. 10735
Rohman, P. C. 11549
Röhrig, H. 912
Roig, L. A. 11903
Roitsch, T. 12775
Roja, G. 6601
Rojas Cruz, E. 9797
Rokka, V. M. 10602
Roldán, H. 11353
Rolev, V. S. 4860
Rolfe, B. G. 12816
Rolfe, S. A. 5771
Rollfinke, I. K. 8327
Rollo, F. 7613
Rom, R. C. 8404
Romagosa, I. 29, 1081, 3704, 6833
Romaine, C. P. 5681
Román, M. I. 12960
Romanenko, V. D. 2378
Romani, A. 5288
Romani, M. 2422, 2821
Romani, R. J. 3058
Romani-Martínez, L. 10789
Romano, B. 7554
Romano, R. 684, 6194
Romanova, I. 2677
Romdhani, M. S. 2987
Romeiro, R. R. 7180
Romera, C. 3710
Romera, F. 3697, 12644
Romero, A. 5394
Romero, C. 10173
Romero, D. 4746
Romero, E. J. 5575
Romero, E. R. 2017
Romero, G. A. 8716, 11092
Romero, G. O. 6033
Romero, J. M. 2196, 6580
Romero, L. A. 11524-11525
Romero Aroca, A. 12073
Romero-Severson, J. 5958
Romero Y., O. 9249-9250
Romero Zarco, C. 10203
Romisondo, P. 7274
Rommel, A. 9592-9593
Rommens, C. M. T. 1404
Romoleroux, K. 6306
Ronald, P. C. 8798
Roncarati, R. 12621
Roncedo, M. A. 2017
Ronchi, V. N. 1240
Ronde, J. A. de 2098, 5509
Rondón, A. 9483
Rong, T. Z. 1419
Rooijen, G. J. H. van 821, 8812
Room Singh 4154
Rooney, L. 1443
Rooney, L. W. 1450, 1452
Rooney, W. L. 3687, 11404
Roopali Singh 4082
Roopashri, N. 10625
Roos, E. E. 11314
Rooyen, P. J. van 1429
Roozendaal, G. van 4899
Ropan, G. 10721, 10774
Roper, T. R. 731
Røren, V. 11060
Rosa, G. la 13108
Rosa, N. 900
Rosa, O. S. 4674
Rosa Fernández, L. de la 5061
Rosahl, S. 9997, 10590
Rosaiah, G. 3989
Rosales, F. 10799
Rosamma, C. A. 8034
Rosati, C. 9128
Rosati, P. 4126-4127, 5264, 5274, 7288-7289
Rosato, M. 9062
Rose, C. 7488
Rose, I. A. 2869, 9364
Rose, J. L. 512, 10532, 11778, 11782
Rose, M. 9895
Rose, S. 5173
Rose-Fricker, C. A. 9856
Rosellini, D. 11661
Roseman, R. 3736
Rosén, B. 5357
Rosen, C. J. 11993-11994
Rosenberger, D. A. 8388
Rosenow, D. T. 3778, 6942-6943, 11530
Röser, M. 8616
Roses, O. R. 9146
Roshchenko, M. V. 6709
Rosli Mohamad 13409
Rosmini, H. 1618
Ross, A. R. J. 12476
Ross, C. W. 3452
Ross, H. 5094
Ross, I. K. 13400
Ross, J. H. E. 4213, 6339

Ross, J. J. 6184, 7111, 8192, 11755, 11758, 12894
Ross, K. D. 7477
Rossback, C. 8333
Rossberg, M. 10655
Rossel, H. W. 12773
Rossell, J. B. 7417
Rossi, C. 4613
Rossi, L. 5864, 12136
Rossi, M. 9539
Rossi, M. P. 9550
Rossi, V. 6918, 7891
Rossignol, L. 2954, 2985, 3013, 4174, 7161, 13109
Rossignol, M. 7161, 13109, 13201
Rossini, L. 352, 9071, 9168
Rossiter, R. C. 12815
Rossnagel, B. G. 1365
Rossum, D. van 7366
Rost, T. L. 6182
Rostova, N. S. 12006
Rotar', A. I. 10217
Rotbaum, A. 4133
Rote, N. B. 7421
Roth, B. 3721, 5957
Rothery, P. 5707
Rothnie, H. M. 7611
Rothrock, C. S. 8074, 8579
Rothstein, S. J. 4063
Rotino, G. L. 687-688, 697, 4087, 4092, 9556
Rotov, R. A. 5612
Rottmann, W. 6286
Rottmann, W. H. 4062
Rouamba, A. 7189
Rouan, D. 3211
Roubelakis-Angelakis, K. A. 10046, 11131
Roudeillac, P. 5272
Roué, C. 10175
Rougier, M. 5539
Rouhani, S. 4607, 4615
Roulund, H. 13312
Roumen, E. C. 2770, 3855, 7000, 7007
Roumet, P. 3944
Rounsley, S. D. 7219
Rouse, R. E. 13100
Rousseau, R. J. 13271
Rousselle, P. 2955, 2959, 2993, 2998, 3013, 3444, 13421
Rousselle-Bourgeois, F. 2955, 2959, 2998, 3444
Rousset, M. 6747, 7733, 7775, 12494, 12531
Roustan, J. P. 4107, 5292, 11847
Rouster, J. 5469
Rout, G. R. 4394, 13286
Roux, H. S. 1265, 1387, 1637, 10138
Roux, J. P. 6599
Roux, P. 4502
Rouzé, P. 4295, 6481
Rouzé-Jouan, J. 2998
Roveraro, C. 2966
Rovira, M. 9644
Rowe, D. E. 6061, 6088, 8106, 8117
Rowe, P. 10799
Rowe, R. C. 3062
Rowland, G. G. 8169
Rowland, L. J. 4148, 4152, 7284, 9566
Rowland, R. E. 7523, 9867
Rowley, J. R. 2133
Roxas, J. P. 8037
Roy, A. 3653, 6351
Roy, B. 442
Roy, D. N. 6544, 11000
Roy, K. W. 9369
Roy, M. K. 3723
Roy, P. le 12428
Roy, R. C. 8507, 12080, 13159
Roy, S. K. 4195
Roychowdhuri, S. 785
Royer, J. C. 1066
Royo, A. 8966
Royo, C. 1366, 3704
Royo, J. 2427, 5482, 11879
Różalski, K. 11675
Roze, M. 2506, 11354
Roze, M. V. 1261
Rozema, J. 1815
Rozov, S. M. 483, 1735
Ru, B. G. 6494, 7391
Rua, G. H. 3899
Ruaud, J. N. 4375
Rubaihayo, P. 1831
Rubanovich, A. V. 3354
Rubenthaler, G. L. 3654
Ruberti, F. 4691
Rubiales, D. 289, 4659, 6854, 7714
Rubin-Wilson, B. 3725
Rubino, D. B. 4424
Rubino, L. 5480, 8569
Rubinstein, A. L. 5956
Rubio, A. 1366, 12618
Ruby, C. L. 1792
Rucińska, M. 11932
Ruckenbauer, P. 2470, 2525, 2543, 8137, 8508, 12601
Rudas L., A. 11011
Rüdelsheim, P. 12376
Rudenko, G. N. 9538
Rudenko, I. S. 11049
Rudich, J. 11888
Rudiger, W. 7845
Rudolph, K. 9394
Rudzish, R. V. 4560
Rueb, S. 3804, 6065, 6986
Rüegger, A. 12493
Ruemmele, B. 1630
Ruf, S. 10231
Ruffio, V. 1940
Rufty, R. C. 3308
Rughoo, M. 1398
Rugini, E. 3234, 6410
Rugolo de Agrasar, Z. E. 9273
Rui, R. L. 9220
Ruisa, S. 3128
Ruissen, F. van 682
Ruiter, J. M. de 5999
Ruíz, C. 12291
Ruíz, J. R. 4181
Ruíz, M. 4713, 8353
Ruiz, R. G. 6093
Ruiz, T. E. 3933
Ruiz-Avila, L. 12661
Ruiz Rejón, C. 7206, 7524
Ruiz Rejón, M. 7206
Ruiz-Sánchez, M. C. 10675
Rukmanski, G. 9389
Rulkens, T. 5829
Ruman, T. 10780, 10783
Rumbaugh, M. D. 3921, 3935-3936, 7057
Rumbos, I. C. 8760
Rumsey, F. J. 1032
Rundle, S. J. 6343, 7327
Runion, G. B. 3362
Rupasava, Zh. A. 10446
Rupasova, Zh. A. 10446
Rupela, O. P. 8134
Rural Advancement Foundation International 13238
Ruredzo, T. G. 1089
Ruredzo, T. J. 1086, 1623, 2122
Rus-Kortekaas, W. 8329, 12998
Rusalenka, V. R. 10446
Rusalenko, V. R. 10446
Rusanen, M. 5582
Russell, A. 8206
Russell, D. A. 3724
Russell, D. M. 3138
Russell, G. 5727
Russell, J. H. 2111, 2264
Russell, S. D. 3548, 13219
Russell, S. H. 1154
Russell, W. A. 9052, 11414
Russelle, M. P. 9303
Russo, C. 686-687
Russo, M. 5480, 8569
Russo, S. 11599
Russo, V. M. 9106
Rust, W. F. 11480
Rusterholz, P. 10827
Ruter, J. M. 5622
Rutherford, R. S. 13180
Rutishauser, R. 11243
Rutkowska, B. 11643
Rutkowski, R. 4910
Rutledge, R. G. 12033
Ruuth, P. 11619
Ruz, V. 12698
Ruzankina, Ya. S. 11408
Ruzmetov, P. 10687
Ryabchenko, N. A. 11397
Ryals, J. 936, 1764, 2075, 2266, 3289, 3478, 5464, 5742, 7661, 10031, 12399
Ryan, C. A. 4064, 4076, 6265, 6268, 13014-13015
Ryan, C. C. 6452-6453
Ryan, D. L. 11626
Ryan, P. R. 236, 3645
Ryba-White, M. 1606
Rybak, H. 11675
Rybalka, A. I. 10115
Rybczyński, J. J. 3928-3929
Rybczyński, R. 4724, 5268
Rybiński, W. 5910
Rybka, K. 297
Rybka, Z. 11347
Rychtárik, J. 4719
Rydberg, I. 11753
Rydelius, J. A. 2264
Ryder, E. J. 12980, 12982
Rykbost, K. A. 5104
Rytter, J. L. 3116
Ryttman, H. 3347
Ryu, S. R. 1993, 4908
Ryu, Y. J. 5316, 6031
Ryzhov, A. V. 8875
Rzepka, D. 296
Rzhetsky, A. 12455
Saa-Otero, M. P. 10789
Saadat Khan 6155, 12885
Saaidi, M. 7308-7309
Saalbach, G. 4199, 9381
Saalbach, I. 4199
Saarikoski, P. 2121
Saba-El-Leil, M. 11815
Saba-El-Leil, M. K. 8243
Saban, B. A. 10834
Sabancı, C. O. 1693, 1794
Sabas, E. 12194
Sabbatini, I. 5262, 11977
Sabelli, P. A. 588
Saberi, H. K. 4767, 12620
Saberman, J. 7925
Sabeva, Z. 8990
Sabhyata Bhatia 3194
Sabitha Doraiswamy 5202
Sablowski, R. W. M. 4435
Saborío Mora, M. 10696
Saccardo, F. 699, 709-711, 6108
Sacco, F. 2557
Saccomani, M. 3757
Saccone, C. 8854
Sachan, J. K. S. 1457, 9053, 9066, 9143, 10247, 10536
Sachs, E. S. 3330
Sachs, M. M. 7955, 10215, 10291
Sacks, W. R. 3435
Sadananda, A. R. 1535
Sadanandam, A. 5193
Sadashiva, A. T. 4082
Sadasivaiah, R. S. 175, 2453
Sadasivam, R. 11583
Sadasivam, S. 8011
Sadavasivam, R. 7150
Sadeghi, S. K. 5021
Sadeghian, S. Y. 897
Sadeque, Z. 218
Sadiq, M. S. 1329
Sadka, A. 8153, 10465
Sadras, V. O. 10855, 10863
Saedler, H. 919, 3562, 3717-3718, 5961, 5966, 6581, 7904, 8697, 10235
Saeed, M. 6722
Saenko, Z. V. 4744
Sáenz-de-Miera, L. E. 7866, 12636
Saenz-Romero, C. 13292
Sáez-Vásquez, J. 3002, 3005, 5353
Safford, R. 4205
Safo-Kantanka, O. 12951
Safranski, G. 8946
Saftic, D. 6493
Saga, H. 5159
Saga, N. 5685
Sagan, M. 5057, 12898
Sagar, P. 376, 10325, 10328
Sagare, A. P. 569
Sage, R. F. 5026
Saghir, S. A. 644
Sági, F. 2533
Sági, H. 2533
Sagi, L. 6317
Sagwal, J. C. 541, 3782
Sah, D. N. 2529, 6784
Saha, A. 442
Saha, M. G. 690
Sahai, S. 6643, 8778
Sahai, V. N. 3825
Sahara, H. 12593
Sahgal, P. 8558
Sahi, S. V. 10061
Sahijram, L. 4639
Şahin, A. 10444, 12643
Sahoo, B. K. 10548
Sahoo, K. 3844
Sahoo, K. M 4250
Sahu, G. S. 10693
Sahu, R. K. 4900, 11607
Saiardi, A. 4230
Saiedi, A. K. 4059
Saieed, N. T. 12189-12190
Saiffulah Khan 4700
Saifuddin, K. 553
Saifulla, M. 12921
Saiga, S. 8065
Saigo, K. 6023
Saikia, A. K. 5220
Saikia, L. 9923, 13393
Saimbhi, M. S. 8866
Sain, S. L. 10428, 13199
Sain Dass 9118, 9153
Saindon, G. 2900, 8180
Saindrenan, P. 5776
Saini, A. D. 11320
Saini, H. S. 4975-4976, 5697
Saini, M. L. 595, 1773
Saini, R. G. 6792, 6802, 12574, 12577, 12766
Saini, R. K. 12762
Saini, R. S. 258, 11613, 12766
Saint, J. P. le 6369-6370, 6407
St. Amand, P. C. 9565, 11938
St. Clair, D. A. 8340, 13017
St. Clair, J. B. 8651, 8653
St. John, J. A. 9252
St. Martin, S. K. 9116, 9374, 10456, 11421, 11730
St. Pierre, C. A. 7716, 7818, 10134, 12578
Saione, H. A. 2557
Saito, A. 393, 417, 3808, 3810, 6019, 12721, 12724
Saito, H. 10914
Saito, K. 647, 735, 9910, 10699, 12730
Saito, T. 739, 9582, 11929
Saito, W. 10807
Saito-Koizumi, S. 5663
Saji, H. 9729, 10012
Saji, S. 7898, 9198
Sajjad, M. I. 12555
Sajjan, S. S. 11508
Sakač, Z. 7339
Sakai, A. 3925, 6259, 9534, 12983
Sakai, F. 505, 6824
Sakai, N. 9213
Sakai, S. 3014, 11245
Sakamoto, A. 8000, 9522
Sakamoto, K. 8701, 10641, 12435
Sakamoto, M. 3826
Sakamoto, W. 6019
Sakata, Y. 693, 4098, 5083, 10634, 11044
Sakhare, R. S. 4863, 5992, 6933, 7136, 9223, 10871
Sakin, M. 1903
Sakurai, T. 9822
Sala, C. A. 1640

Sala, F. 3055, 6277, 8604, 11562
Salado-Navarro, L. R. 6134
Salaj, J. 13319
Salajová, T. 5589
Salam, M. A. 3831
Salamini, F. 55, 916, 2422, 2953, 2976, 3269, 3620, 3715, 5971, 6577, 6918, 7166, 7889, 7891, 7902, 8260, 8669, 8674, 9039, 11810, 12550, 12594, 12621
Salamon, P. 10953
Salanoubat, M. 8698
Salas, M. 1757
Salas Pascual, M. 5615
Salazar, G. A. 1026
Salazar, R. 10307
Salazar García, S. 812
Salazar Huerta, F. J. 8929
Salazar Zazueta, A. 227
Salcedo, G. 6833
Sale, M. M. 972
Sale, P. 12012
Saleem, A. 7800
Saleem, M. 4811, 4830, 7627
Salehuzzaman, S. N. I. M. 4017, 11848
Salema, R. 13338
Salerno, G. 4591, 13207
Salerno, J. C. 4834
Sales, M. P. de 9438
Salesses, G. 1897, 10715, 11955
Salgado, M. O. 2895, 9396
Salgo, A. 8385
Salgueiro, L. R. 9932
Salhuana, W. 9002
Saliendra, N. Z. 8516
Salifu, A. B. 585
Salih, F. A. 6145-6146
Salim, M. 10369
Salimath, P. M. 2936
Salimath, S. S. 6432
Salimuddin 1680, 11764
Salinas, J. 12409
Salisbury, F. B. 3452
Salisbury, P. A. 3203, 11142
Säll, T. 8470, 8955, 10837, 12438
Sallée, B. 4285
Salm, T. P. M. van der 13348
Salmenkallio-Marttila, M. 5905
Salmeron, J. M. 9964, 10677
Sal'nikova, T. V. 4684, 4697, 5796, 10084
Saloheimo, M. 971
Salomon, B. 3885, 7033, 8079-8080, 9259, 10404
Salomon, R. 11895
Salomons, M. C. 13390
Salter, R. 3909, 3916
Saltveit, M. E. 8373, 8753
Saltveit, M. E., Jr. 1863, 5157
Salud, C. D. 13153
Salunkhe, G. N. 2723
Salvado, J. C. 4493, 4495
Salvi, G. 5022, 11747
Salvucci, M. E. 3050
Salzano, M. 688
Salzman, R. A. 3475
Samac, D. A. 12423
Samad, M. A. 2731
Šamaj, J. 5634
Samallo-Droppers, A. 9121
Samanta, S. K. 6227
Samantaray, P. 12061
Samantaray, R. N. 438
Samarajeewa, P. K. 13370
Sambandamoorthi, S. 1721
Sambandamoorthy, S. 7372
Sambandamurthy, S. 11875
Samborska-Ciania, A. 528
Samborskaya, A. K. 10778
Samborski, D. J. 7723-7724
Samec, P. 4578
Samm, T. 7187
Sammons, D. J. 3
Sammour, R. H. 9418
Samolo, B. N. 9441
Sampaio, G. 3142
Sampson, D. 4733
Sampson, D. R. 178
Šamrov, I. I. 7444
Samson, P. R. 3264
Samuel, R. 13388
Samunder Singh 9279
San, L. H. 7405
San Miguel, P. 9043
San Vicente, F. M. 11419
Sanada, T. 6293, 9581
Sánchez, E. 1456, 11474
Sánchez, J. 5129
Sanchez, J. 8998
Sanchez, L. 9951
Sanchez, L. M. 8780
Sánchez, R. A. 11398, 11935
Sánchez-Blanco, M. J. 10675
Sanchez-Casas, P. 6503
Sánchez Cuevas, C. 7722, 8494, 9008
Sánchez D., S. 5383
Sánchez de la Hoz, P. 274
Sánchez Gomez, P. 9939
Sánchez González, J. J. 11490
Sánchez Lamar, A. 6690
Sánchez M., E. 12023
Sánchez-Mariñez, R. I. 6811
Sánchez-Monge, R. 6833
Sánchez-Pina, M. A. 1138
Sánchez Tamés, R. 5657
Sánchez-Yélamo, M. D. 13176
Sanda-Kamigawara, M. 9876
Sandal, L. 507
Sandal, N. N. 507
Sandalio, L. M. 10923
Sandberg, G. 7401
Sandbrink, H. 1817
Sandbrink, J. M. 8728
Sandermann, H., Jr. 986, 6495, 8639
Sanders, D. E. 386
Sanders, P. 908
Sanders, P. M. 2384
Sanders, R. A. 12393
Sanderson, M. A. 10319
Sanderson, M. J. 125, 495, 3937, 12458
Sandery, M. J. 2648
Sandha, G. S. 1936, 1942, 6873
Sandhu, B. S. 2088-2090, 5501
Sandhu, G. S. 3483, 4321
Sandhu, H. 6203
Sandhu, J. S. 567, 1573
Sandhu, S. S. 5080
Sandhu, T. S. 576, 2924, 2934, 9414
Sandhya Jha 4931
Sandip Mukhopadhyay 10651
Sandlund, O. T. 2257
Sandmann, G. 4315
Sandmeier, M. 1505, 9169
Sandover, S. 512, 10532, 11782
Sandu, I. 7355
Sandu-Ville, G. 10792
Sandukhadze, B. N. 1262
Sanfaçon, H. 1124
Sanford, D. A. van 5726, 5854
Sanford, J. C. 3723, 5481
Sanford, L. L. 11819
Sang, J. L. 7774
Sangam Lal 9154
Sangar, R. B. S. 8280, 9477, 10605
Sangare, A. 3230, 6369-6370, 6383, 6407, 12071, 13154
Sangduen, N. 6985
Sänger, H. L. 9723
Sangha, A. S. 1983
Sanghi, A. K. 4862
Sangiacomo, M. A. 11996
Sanginov, B. S. 5496
Sangle, M. 9352
Sanguineti, M. C. 6828
Sanguino, A. 9701
Sangwan, I. 519, 10470
Sangwan, R. S. 895, 5662, 7174
Sangwan-Norreel, B. 5662
Sangwan-Norreel, B. S. 895, 5624, 7174, 9577
Sanint, L. R. 6043
Sanjari, A. G. 12538
Sanjeev Kumar 6270, 6333
Sanjuan, J. 2266
Sankar, C. R. 7237
Sankar, S. J. 1885
Sankaran, S. 5747
Sankaranarayana Sadasivam 8011
Sankaranarayanan, C. 1593
Sankaranarayanan, P. 881
Sankaranarayanan, R. 2223, 4476
Sankarapandian, R. 5998
Sankawa, U. 8737
Sankhla, D. 4358
Sankhla, N. 4358
Sano, H. 2458
Sano, T. 10012
Sano, Y. 1590, 2740, 2743, 10474, 11235, 12725-12726
Sansavini, S. 3104, 3109, 3450, 5234
Sanso, A. M. 2207
Santa Cruz, A. 7229
Santakumari, M. 11393
Santalla, P. S. 2968
Santamaria, P. 1824
Santamour, F. S., Jr. 11956
Santana, N. 1571
Santerre, C. R. 750
Santhalingam, C. 11591
Santi, R. 7281
Santiago, J. G. 9390
Santo, G. S. 6244
Santoni, V. 12420
Santonoceto, C. 3201, 5487
Santos, G. A. 3230
Santos, G. L. 3185
Santos, H. L. dos 1485, 3777
Santos, I. 13338
Santos, J. B. dos 5028, 7099, 8304, 12872
Santos, J. L. 7869
Santos, J. P. O. 11528
Santos, M. 7938
Santos, M. A. 336, 7507
Santos, M. B. 10382
Santos, M. X. dos 6879
Santos, N. T. 11418
Santos, O. S. dos 4829, 11740
Santos, R. R. dos 3651, 4142
Santos-Díaz, M. 13027
Santos-Díaz, M. del S. 13027
Šantrůček, J. 12148
Sapkal, B. B. 9656
Sapko, O. A. 5669
Saracco, F. 702
Saradhi, P. P. 13113
Saraiva, L. S. 319, 4822, 7908
Saranga, Y. 11888
Sarangi, D. K. 11067
Saranin, K. I. 10182
Sarasan, V. 13391
Sarashima, M. 3993
Saraswat, A. V. 1961
Saraswathi, P. 3275
Saraswathy, P. 12178-12179
Saraswati, R. 7067
Sarath, G. 8146
Sarawat, P. 8189-8190
Sarawgi, A. K. 6971
Sarbjit Kaur 883
Sardana, R. 3592
Sardesai, N. 6638
Sareen, P. K. 11771
Sareen, S. 1040
Sarfatti, M. 9553
Sarfraz Ahmad 4771
Sarg, S. M. H. 1841
Sarhan, F. 187, 477, 8919
Sarı, N. 5208
Sari Gorla, M. 117, 352, 1214, 1236, 1470, 2269, 9071, 12687
Sarieva, G. S. 1314
Sarin, N. B. 7596, 9691
Sarita, V. 5169
Sarkar, A. K. 12204
Sarkar, B. B. 6334
Sarkar, J. M. 10846, 10895
Sarkar, K. P. 9216
Sarkar, K. R. 9101-9103, 9125-9126
Sarkar, M. K. 8049
Sarkar, P. K. 11601
Sarkar, S. 2364
Sarkar, S. K. 10623
Sarkarung, S. 3858
Sarker, A. 2918
Sarker, R. H. 2731
Sarkunan, V. 3843
Sarlach, R. S. 11542
Sarma, B. K. 2410, 3985, 4984, 7144
Sarma, C. M. 809
Sarma, K. S. 9929, 11086
Sarma, R. N. 6351
Sarmah, K. K. 7991
Sarnighausen, E. 5888
Sarno, R. 5483-5485, 5491, 7117
Saroj Bishnoi 12896
Sarr, A. 1505, 7189
Sarrafi, A. 2496, 4710, 7744, 7771, 8896, 8905, 10113
Sarria, R. 8123
Sartaj Khan 355, 359, 3615, 4221, 6004
Sartori, J. F. 4674
Sartorius, R. 5335
Sarukhán, J. 979
Sarvat, M. I. 4956
Sarvesh, A. 1992, 3253
Sasahara, T. 9226, 9512
Sasai, T. 7067
Sasaki, K. 3014
Sasaki, M. 9810, 11594
Sasaki, T. 1001, 8004-8005, 10354, 11554, 11563-11564, 11571, 12760
Sasaki, Y. 546, 548, 7107, 9522
Sasakuma, T. 2571, 8062, 11311
Šašek, A. 209, 1355, 2432, 2614, 4690, 11344
Sashidhar, V. R. 6962, 10876
Sasidharan, N. K. 4894
Sasikumar, B. 9926
Sass, P. 8383, 8385
Sassa, H. 4128
Sassella, A. 7257
Sassoli, O. 3427
Sasson, A. 3560
Sastrapradja, S. D. 11146
Sastry, E. V. D. 6607
Sastry, M. V. S. 2725
SAT News 2707, 2721, 2920-2921, 2933, 3973
Šatarić, I. 2688
Sathaye, S. S. 10880
Sathiamoorthy, S. 4172
Sathiarajan, P. K. 6405
Satija, C. K. 1765, 7149
Satija, D. R. 861, 1483, 1741, 1749, 1752, 1983, 1985, 2934, 7130, 7363
Satish Lodha 12926
Sato, A. 776, 8426-8427, 9597
Sato, H. 365-366, 464, 3781, 9570
Sato, K. 119, 12623, 12628, 13028
Sato, M. 8352
Sato, R. 1764
Sato, S. 3829, 5680
Sato, T. 440, 1771, 6286, 9231, 9535-9536, 9911, 10277, 12961
Sato, Y. 739, 9582, 10381
Sato, Y. I. 1544, 3842, 11600
Satoh, H. 6995
Satoh, I. 10820
Satoh, M. 7394
Satoh, S. 7173, 9663
Satomi, H. 2774
Satorre, E. H. 10070
Satpute, R. G. 1760, 6214
Sattar, A. 4220
Satterlee, L. D. 1649-1651, 2823, 3908-3909
Satua, D. R. 6203
Satyabalan, K. 1977
Satyan, B. A. 6226
Satyanarayana, A. 591, 3989

Satyanarayana, E. 4871
Satyanarayana, M. 641, 10639
Satyanarayana, M. V. 6947
Satyaprasad, K. 12696
Satyendra Kumar 1961
Sauer, A. 5633, 5636
Sauer, J. D. 2271
Sauer, N. 911, 4816, 10004, 11204
Sauer, W. C. 8168
Sauerborn, J. 7597
Saukel, J. 5644, 11072
Săulescu, N. N. 2542, 11328
Saulnier, L. 12613
Saumitou-Laprade, P. 2031, 5433, 10907, 13189
Saunders, J. A. 10430
Saunders, J. L. 11114
Saunders, J. W. 8531
Saunders, K. 5122
Saunier, R. 5244
Saur, L. 6772
Saurer, W. 1339, 1376, 1388, 2660, 4752, 6727, 11286
Sautter, C. 156, 7738, 7770, 11310
Savage, G. P. 5065
Savage, T. J. 9808
Savangikar, C. V. 885
Savangikar, V. A. 885
Savard, L. 10049
Savard, M. E. 7963
Savatti, M. 10435, 10438
Savatti, M., Jr. 10438
Savidan, Y. H. 1213
Savill, P. S. 7443
Savin, E. Z. 10720
Savin, G. 10782, 10792
Savino, V. 3182, 8399
Savolainen, O. 2131, 2134, 5582, 7480
Savouré, A. 7050
Savy, Y. 6696
Sawada, H. 3163
Sawaji, B. V. 12847
Sawant, D. S. 6013
Sawant, R. A. 882
Sawant, S. V. 6283
Sawar, G. 6221
Sawbridge, T. I. 8175
Sawhney, V. K. 833, 4212
Sawicka, B. 12938
Sawicki, B. 11640
Saxena, K. B. 9421, 9423, 10544
Saxena, K. N. 2717, 9165
Saxena, M. C. 6110-6111, 6152, 6199, 6630, 7074, 7131-7132, 8137, 8206-8207, 10529-10530, 10538
Saxena, M. M. S. 4274, 8510
Saxena, N. P. 6111, 8137, 11772
Saxena, P. K. 4399, 12236
Saxena, S. 10976, 11120
Saxena, S. D. 7152
Saxena, V. K. 1391-1392, 1426, 9151
Sayanova, O. V. 2583
Sayre, R. T. 5130
Sbrana, C. 551
Scacchi, R. 1025
Scales, G. J. 1386
Scalfati, G. 1328
Scandaliaris, J. 2017
Scandalios, J. G. 3764, 4831, 9029, 9951, 10237
Scanlon, M. 9079
Scanlon, M. J. 9085
Scannerini, S. 6614, 8196
Scarafia, L. 5989
Scarascia-Mugnozza, G. T. 5864
Scarpa, G. M. 2829
Scarry, C. M. 11486
Scarth, R. 4214, 13136
Schaafsma, A. W. 7963
Schaal, B. 2175
Schaal, B. A. 85, 3021
Schaalje, G. B. 1303, 7808, 8180, 8915
Schaap, P. J. 13401
Schabbink, E. 7218
Schachermayr, G. 7812
Schachermayr, G. M. 12490
Schachtschabel, U. 2976
Schaefer, E. 13205
Schaefer, R. L. 2266
Schaewen, A. von 79, 6232, 7158
Schäfer, E. 5760, 5868, 7553, 10013, 11109, 12298
Schafer, H. W. 10588
Schafer, J. F. 6800
Schäfer, W. 2307
Schäfer-Menuhr, A. 9518
Schaffer, A. 3755
Schaffer, A. A. 11872
Schafferman, D. 10455
Schaffert, R. E. 1485, 3777, 12474
Schäffner, A. R. 2351, 11217
Schalk, J. M. 3030, 11867
Schank, S. C. 6960
Schantl, S. 152
Schantz, M. L. 4817
Schantz, R. 4817
Schanz, S. 5740
Schapaugh, W. T., Jr. 6138
Scharen, A. L. 6778
Scharf, K. D. 5173
Schat, H. 6578
Schatz, G. E. 7460
Schecter, I. 5225
Scheel, D. 3435, 5674, 8740
Scheerens, J. C. 8423, 9595
Scheffler, B. 3717, 5961
Scheffler, J. A. 2349, 6354
Scheibe, R. 7158
Scheid, O. M. 12410
Scheidegger, A. 12399
Scheidegger, U. 9448
Scheidt, G. 7632
Scheidt, M. 2958, 8262
Schein, S. 5964
Schel, J. H. 7228
Schell, J. 312, 910, 912, 927, 3499, 3506, 5451, 5757, 6500
Schellenbaum, L. 2910, 8196
Scheller, H. 8069
Scheller, H. V. 2430, 2603
Schemske, D. W. 998
Schenk, G. 2429
Schepers, J. 4731
Scherthan, H. 1191
Schertz, K. F. 7975
Schettino, O. 12907
Scheuerlein, R. 11096
Scheuring, C. F. 4056, 8331, 9537
Schiavi, M. 688
Schickedanz, F. 13365
Schieder, O. 736, 4199, 8699, 10242
Schiefelbein, J. W. 11221
Schilder, A. M. C. 12568
Schiller, G. 2137
Schilperoort, R. A. 3804, 3806, 4291, 4470, 6986
Schipani, C. 6277
Schiphouwer, T. 11855
Schipp, A. J. 3898
Schittenhelm, S. 6857, 10198
Schiweck, H. 8529
Schlaeppi, M. 5990
Schlagnhaufer, B. 5681
Schlake, T. 12263
Schläppi, M. 924, 7888, 9049
Schlarbaum, S. E. 980
Schlechtendal, D. F. L. 2972
Schlegel, R. 8889, 12477
Schlesser, A. 7198
Schlicher, T. B. 9523
Schlink, A. C. 4962
Schluter, D. 8838
Schmalz, H. 12529
Schmalzel, C. 6920
Schmauder, H. P. 3065
Schmaus, G. 7508
Schmelzer, E. 3298, 5838
Schmid, A. 1144, 1230
Schmid, G. H. 2068
Schmid, J. 4054-4055, 7212, 10659
Schmid, J. E. 2289-2290, 2471, 3577, 9122, 10104, 10118, 11358, 12493
Schmid, K. 2175
Schmid, M. L. 651
Schmidt, A. 273
Schmidt, E. 7403
Schmidt, H. 7277, 9586
Schmidt, H. K. 6869, 7873
Schmidt, J. 912, 2787, 2983
Schmidt, J. H. 6516
Schmidt, J. S. 11702
Schmidt, J. W. 168, 10075
Schmidt, M. 8979
Schmidt, R. 2353, 5774, 11212, 12413
Schmidt, R. J. 2681-2682
Schmidt, T. 7381, 13184
Schmidt, W. 6876
Schmidt-Rogge, T. 10242
Schmidtling, R. C. 8631
Schmiedeberg, I. 12405
Schmiediche, P. 8267
Schmiediche, P. E. 2984
Schmit, J. 8339
Schmit, V. 5031, 8177-8178
Schmitt, J. 3202, 11063
Schmitt, M. 2501
Schmitt, P. 6307
Schmitthenner, A. F. 1714, 9373-9374, 10456, 11730
Schmitz, U. K. 9453, 10674
Schmitz, V. 5299
Schmülling, T. 3994, 5451, 5757, 8545
Schnabel, A. 8832, 9825
Schnabl, H. 1970
Schnable, P. 7897, 7901, 9031, 9079-9082
Schnable, P. S. 3720, 9076, 12670
Schnall, J. A. 5400, 8818
Schnebly, S. R. 11722
Schneck, H. 12206, 13297
Schneerman, M. C. 11489
Schneider, A. 3160
Schneider, A. T. 10598
Schneider, K. 6577
Schneiderbauer, A. 4037, 6255
Schneiter, A. A. 7348
Schnell, R. J. 894, 13102-13103
Schnelle, G. 12290
Schnelle, T. 7474
Schnorr, K. M. 10005
Schnug, E. 5884, 6350
Schock, G. 5351, 12032
Schoelz, J. E. 4309
Schoeman, J. L. 5103
Schoeman, M. H. 10818
Schoen, D. J. 1177, 6698, 6700
Schoen, E. D. 3390
Schoenmakers, H. C. H. 4059, 5090, 5174
Schoettle, A. W. 5587
Schoffer, C. 4628
Schöffl, F. 5767, 7655
Schöffling, H. 3156-3157
Schofield, S. 6579
Scholberg, E. J. M. M. 8239
Scholte, K. 9463
Scholten, O. E. 10916
Scholz, B. C. G. 6953
Scholz, F. 12221
Schön, C. C. 9051, 10188
Schönbeck, F. 7858
Schöndorf, T. 2173
Schöne, F. 13140
Schoonhoven, A. van 8759
Schoot, J. van der 4452
Schori, A. 12850, 12863
Schotzko, D. J. 10152
Schrader, O. 2651
Schraudolf, H. 11096
Schrauwen, J. 2061
Schreiber, H. 7842
Schreiber, L. R. 11001
Schreiber, S. 11908
Schreiber, S. L. 10500
Schreier, P. H. 3298
Schrell, A. 3717, 5961
Schrell, S. 10235
Schriener, A. 2956
Schrire, B. D. 7069
Schröder, G. 2219, 5661, 5740, 9913
Schröder, I. 9523
Schröder, J. 2219, 5661, 5740, 8733, 9912-9913
Schröder, M. 5838
Schröder, W. 10569, 11803
Schroeder, H. E. 1639, 6107
Schroeder, J. I. 5789
Schroeder, K. 5473
Schroeder, M. 7623
Schroeder-Teeter, S. 10152
Schrott, M. 11180
Schrubar, H. 5846
Schubert, I. 1191, 7096, 8165, 12436-12437, 13310
Schubert, K. R. 3914
Schubert, R. 12634
Schubert, S. 4023
Schubert, V. 7810
Schubiger, F. X. 4949, 11286, 11622
Schuch, M. W. 7254
Schuch, W. 4435, 6475, 8525, 10668, 13228
Schuck, E. 5302, 12002
Schuhmann, E. 12530
Schuiling, D. L. 2239
Schuiteman, A. 9902
Schüler, K. 8277
Schuler, M. A. 9402
Schüller, C. 12625
Schulman, A. H. 8954, 12396
Schulte-Kappert, E. 10059
Schultheis, J. R. 7972
Schultz, J. C. 10734
Schultz, P. B. 5623
Schultz, R. C. 5544
Schultze, M. 7050, 12813
Schultze-Kraft, R. 3931, 4909
Schulz, B. 9480
Schulze, A. 38, 12601
Schulze, D. 12145
Schulze, E. D. 6493, 13226
Schulze, G. 6712
Schulze, J. 12611
Schulze-Lefert, P. 5924, 12298
Schumacher, K. 7782
Schumacher, T. E. 10284
Schumann, E. 10101
Schupp, J. M. 6121
Schuren, F. H. J. 1064
Schuster, G. 646
Schuster, H. 10201
Schuster, W. 1152, 8672, 9864, 11058, 12405
Schuster, W. S. F. 1181
Schüte, G. 13268
Schütt, E. 3717
Schutzki, R. E. 12227
Schwager, S. J. 2369
Schwall, G. 12621
Schwartz, H. F. 2895, 9396
Schwartz, M. W. 11033
Schwartzenberg, K. von 12186
Schwarz, M. 229
Schwarz, P. B. 7851
Schwarz-Sommer, Z. 6581, 8697
Schwarzacher, T. 3575, 5843, 10062, 13184
Schwarzová, T. 7016
Schwebel-Dugué, N. 8807
Schweiger, B. 1154
Schweis, A. 2958
Schweizer, D. 12413
Schweizer, L. 9058
Schweizer, P. 8797
Schwendiman, J. 1220, 4174
Schwinn, K. E. 5632
Schwob, E. 6092
Scienza, A. 3161, 5287, 6309, 8429
Scippa, G. 530
Scofield, G. N. 1801, 5800
Scofield, S. 4044
Scofield, S. R. 7231, 11880

Scoles, G. 12633
Scoles, G. J. 12583
Scolnik, P. A. 64, 5172, 7618, 10002-10003
Scortichini, M. 9550
Scorza, R. 757, 4140, 10760, 11978
Scott, A. G. 8107
Scott, A. W., Jr. 7428
Scott, B. J. 2519, 2522
Scott, G. E. 304
Scott, J. E. 1516, 10343
Scott, J. W. 5184
Scott, K. J. 290
Scott, K. J. J. 3627
Scott, K. M. 2402, 2404
Scott, M. P. 2603
Scott, N. S. 3158
Scott, N. W. 12324
Scott, P. 2430, 6835, 12610
Scott, R. 1196, 4203, 4593, 5363, 6339, 6674
Scott, R. A. 10453
Scott, R. E. 12887-12888
Scott, R. K. 4519, 5889
Scott, S. V. 12403
Scottez, C. 740
Scoyoc, S. W. van 2690
Scragg, A. H. 1043
Scull, R. 2226
Scully, B. 4042
Scully, B. T. 2369, 4050
Scutt, C. P. 5149
Seabrook, J. E. A. 609
Seal, A. G. 9606
Seaman, L. 179
Seaman, W. L. 2645, 7833
Searcy, K. 1011
Searcy, K. B. 8692
Sears, B. B. 1005
Sears, E. R. 3604-3605, 11312
Sears, R. G. 3585, 6813, 10131, 10142, 11343, 12545
Seay, N. J. 12359
Sebastian, S. 6125
Seberry, J. A. 8296
Šebesta, J. 5936, 11403
Sechnyak, A. L. 1382
Seck, A. 1888
Seck, D. 5072, 11780
Secor, G. A. 1792
Sedat, J. W. 11449
Sederoff, R. R. 7279
Sedgley, M. 5529, 7502, 9774, 9793, 9801, 11002, 13098
Sediyama, C. S. 511, 7093-7094, 11700
Sediyama, T. 511, 7093-7094
Sedjo, R. A. 1105
Sedov, E. N. 13046
Sedra, M. H. 4188, 7307
Seedling News 11916
Seeley, K. A. 72, 5931
Seemanthini Ramadas 7222, 7233, 7242
Seeni, S. 4478, 7528
Seetha, K. 12701
Seetharam, A. 380, 1964, 12060
Seetharaman, R. 1548
Segal, A. 3589
Segeren, M. I. 5179
Segers, G. 10017
Segovia, V. 9119
Seguí, E. 12802
Seguin, M. 7432, 9763
Segundo, B. S. 11500
Segura, A. 12478
Seguy, L. 11579
Sehgal, O. P. 13349
Sehrawat, A. 4194
Sehtiya, H. L. 2013, 8518
Sehtya, H. I. 9118
Seibel, W. 4715
Seidenbecher, C. 5909
Seidenfaden, G. 11094
Seidewitz, L. 10198
Seifu Tsegaye 6205
Seigler, D. S. 5554, 8517
Seignobos, C. 12315
Seiler, G. J. 4231, 7338, 13187
Seilmeier, W. 12540
Seipel, K. 913, 10929
Seith, B. 7846, 12209
Seitz, G. 10246, 10286, 12653
Seitzer, J. F. 3269, 6876, 9051
Sekera, D. 10780, 10783
Şekeroğlu, E. 9739
Sekhar, M. R. 11786
Sekhon, H. S. 7100
Sekhon, S. S. 9151, 11508
Sekiguchi, S. 2654
Sekimura, K. 3272
Sekine, M. 3511, 4487, 5680, 10927, 11123
Sekiya, J. 7067
Seko, H. 206, 8948, 12513
Sela, I. 10683, 10949
Sela-Buurlage, M. B. 5743, 8564
Selawe, K. G. D. 12920
Selbi, M. I. 4187
Selby, C. 12936
Selby, H. 10727
Seletskaya, L. D. 2076
Selga, M. P. 11270
Selga, T. A. 11270
Selgrade, J. F. 6681
Sellers, C. 13294
Sellmer, J. C. 12657
Selmani, A. 344
Selvi, D. T. 8334
Semal, J. 7585
Semenova, A. 1144
Semikhov, V. F. 6715
Sen, D. R. 7375
Sen, H. 7177
Sen, J. 4195, 11652
Sen, N. L. 6390
Sen, P. 3238
Sen, S. 8727
Şen, S. M. 9638, 13048
Senadhira, D. 421, 1595-1596, 2755, 8037
Senanayake, N. 12735
Senaratna, T. 1658, 12236
Senaratne, R. 4261
Senatore, F. 12907
Senda, M. 7378
Şenel, G. 1022
Sengupta, K. 5563
Sengupta, P. K. 8049
Senior, M. L. 3709
Sennerby-Forsse, L. 2264
Senter, S. D. 8402, 9650
Sentry, M. 12133
Senyuk, V. I. 10656
Seo, B. B. 637
Seo, Y. W. 159
Sequeira, L. 2262
Seraj, Z. I. 2731
Serezhkina, G. V. 2633, 4779
Serghini, M. A. 8566
Serieys, H. 1241, 12059
Serna Ramos, I. E. la 9921
Serna-Saldivar, S. O. 1450, 1452
Serpa, M. G de 11043
Serpa S., E. 5016
Serpette, I. 10759
Serra, E. C. 4558
Serra Bonvehi, J. 1925
Serradilla, J. M. 3956
Serraf, I. 2954
Serraj, R. 8134
Serrano, C. E. 8729
Serrano, J. F. 4246
Serrano, L. 6550
Serrano C., L. M. 748, 5017, 5034
Serrano Covarrubias, L. M. 3036, 5030, 5039, 6750
Serratos, J. A. 351, 9161, 10304
Serratosa, J. 7919
Serres, R. 8610, 10769
Serretti, C. 6138
Servaes, A. 10626
Servettaz, O. 9898
Sesay, A. 12845
Seshadri, V. S. 11909
Seshu, D. V. 443, 1558, 7003
Sessa, G. 2054
Sestraş, R. 10725-10726, 10739-10740
Sethi, G. S. 518, 4725, 5842, 8868
Sethi, S. C. 10543
Sethi, S. K. 2450, 3622-3623
Sethuraj, M. R. 12178
Setiawati, Y. G. B. 9814
Setter, T. L. 1422
Setty, B. V. K. 11538
Setty, T. A. S. 3862
Seurinck, J. 2066
Severin, K. 5767, 7655
Severo, J. L. 6864
Severson, R. F. 2078
Sévignac, M. 6167, 12883
Sevilla, R. 11491
Sewell, M. M. 11007
Sexton, P. J. 6163
Sexton, R. 10764
Seyedsadr, M. S. 5854
Seymour, G. B. 666, 9540
Seynnaeve, M. 11845, 11870-11871
Sezik, E. 9934
Sgorbati, S. 8196
Shaanker, R. U. 3979
Shabana, R. 8137
Shabanowitz, J. 2904
Shabeer Ahmad 2693
Shad, S. S. 4335-4336
Shade, R. E. 9436
Shadeque, A. 691, 1838, 1847, 3082, 4081, 9923
Shaduro, S. I. 11411
Shafer, B. A. 3667
Shagarodsky, T. 12344, 12993
Shah, A. 6187
Shah, A. A. 1813
Shah, A. J. 9795
Shah, B. S. 889
Shah, D. M. 12423
Shah, F. 1920, 4853
Shah, F. H. 1926, 13137
Shah, G. A. 4079, 5151
Shah, G. S. 1488
Shah, R. R. 1578
Shah, S. A. 5872
Shah, S. M. 6518
Shah, T. M. 4727
Shah-E-Alam, M. 12814
Shahat, A. A. 12991
Shahid Bashir 6436
Shahnila Bano 12497
Shahzadi, N. 13137
Shaik Mohammad 6904, 7343
Shaikh, M. A. Q. 6025, 11766
Shakhovsky, A. M. 12932
Shakib, A. M. 5328
Shakya, D. M. 9779
Shakya, R. 9779
Shakya, S. 9817
Shalaby, G. I. 10624, 10627
Shalunova, L. P. 12862
Shalyuta, U. L. 7449
Shamala Naik 11773
Shambulingappa, K. G. 8215
Shamina, N. V. 11408
Shamina, Z. B. 5505, 5669, 6901, 9100, 9147
Shamrov, I. I. 1204, 7444
Shamsher Singh 4995
Shanahan, P. E. 10512
Shands, H. L. 6858, 12365
Shaner, D. L. 7595
Shaner, G. 4794
Shaner, G. E. 4787
Shang, C. S. 3947
Shang, F. D. 943
Shang, H. S. 8969
Shankar Das 1655
Shanker, S. 12910
Shanmugasundaram, S. 512, 12856
Shanmugasundaram, V. S. 7085
Shanmugavelu, K. G. 1851
Shannon, M. C. 1113, 1842
Shantha Nagarajan 213, 237
Shao, B. F. 12157
Shao, J. H. 2847
Shao, Q. M. 10360
Shao, Y. 457, 8018
Shao, Y. Z. 8749
Shapira, M. 10455
Shapiro, J. A. 9554
Sharada, K. 11086
Sharada, S. 2759
Sharafeh, M. 2928
Sharif, A. 634
Sharma, A. 7529, 12098
Sharma, A. K. 369, 978, 1048, 4856, 6055, 11652
Sharma, A. P. 5495
Sharma, A. R. 437, 3849
Sharma, B. 8200
Sharma, B. B. 780
Sharma, B. D. 1682, 2410, 3837, 4022, 9944
Sharma, B. K. 1408
Sharma, B. R. 5219, 13044
Sharma, C. D. 1762
Sharma, D. J. 5943
Sharma, D. L. 7787
Sharma, D. R. 2775, 3483, 5323
Sharma, G. C. 5588
Sharma, G. K. 10719
Sharma, G. R. 3641
Sharma, H. C. 1634, 4872, 9377, 10313, 10315
Sharma, H. L. 1202, 1533, 1539, 1849, 2374, 5064, 9236, 11576, 12567
Sharma, I. 2528
Sharma, I. M. 7244
Sharma, J. C. 5495
Sharma, J. K. 8481
Sharma, J. P. 7959
Sharma, J. R. 1041-1042, 2222, 12288
Sharma, K. D. 4223
Sharma, K. K. 8655
Sharma, K. N. 2745
Sharma, L. C. 10528
Sharma, M. 11121
Sharma, M. L. 4856, 11117
Sharma, M. M. 1056
Sharma, N. 1044, 7544
Sharma, N. K. 7244
Sharma, O. P. 8232, 11121, 12767
Sharma, P. 4565
Sharma, P. C. 4963
Sharma, P. K. 5912
Sharma, P. N. 541, 3782
Sharma, P. P. 5019, 5069
Sharma, R. 4061, 9691, 13005
Sharma, R. C. 3621, 5098, 6907, 7990, 9154, 9236, 10090, 11331
Sharma, R. K. 461, 1056, 2517, 5059, 6607, 7152, 12829
Sharma, R. L. 4117, 10719
Sharma, R. N. 2315
Sharma, R. P. 826
Sharma, S. 1041, 4168, 12924
Sharma, S. B. 8141
Sharma, S. C. 258, 627, 1307, 1333, 3641, 11332, 12766
Sharma, S. D. 4160
Sharma, S. K. 249, 559, 4993
Sharma, S. P. 1231
Sharma, S. R. 1391, 5419
Sharma, T. R. 5098, 7551, 7787, 8021
Sharma, V. C. 2996
Sharma, V. K. 423, 5677, 6037, 8503, 11589
Sharma, V. P. 5306
Sharma, Y. R. 572
Sharon, D. 9630
Sharova, N. V. 10515
Sharp, P. 11261
Sharp, P. J. 7734
Sharpe, A. 9667
Sharpe, A. G. 6341
Sharrock, R. A. 4595, 10013, 11200
Shashidhar, H. E. 5082
Shastri, N. R. 8036
Shatar, S. 13398
Shatrughna Singh 10606
Shatskaya, O. A. 9060

Shattuck, V. I. 620, 8776
Shaŭchuk, S. M. 6732
Shaug, S. P. 11523, 11526
Shaul, O. 4292
Shaver, D. L. 9107
Shaver, G. 11793
Shaver, R. D. 9133
Shaver, R. G. 602
Shaw, D. V. 8421
Shaw, J. F. 4018
Shaw, J. G. 10946
Shaw, L. 10307
Shaw, M. W. 3018
Shaw, P. J. 5800, 6177, 12890
Shaw, R. G. 2191, 4431
Shaziyatova, D. Sh. 10773
Shchadenkov, A. A. 12156
Shcherbak, V. S. 9060
Shcherban', I. 13251
Shcherbatenko, I. S. 2314
Shcherbinin, A. G. 5218
She, J. M. 948, 1574
Sheaffer, C. C. 9284, 10426
Sheehy, R. E. 3053
Sheen, J. 5962
Sheffer, R. D. 2179
Sheffield, E. 1032
Shegaĭ, I. D. 7413
Shehata, A. D. Y. 7417
Sheidai, M. 4047-4048
Sheila, V. K. 1747
Shekar, V. B. 4863, 9170
Shekhawat, G. S. 5112, 10594
Shelby, R. A. 10297
Sheldrick, R. D. 1669
Shelepov, V. V. 1256
Shelifost, A. E. 11961
Shelton, D. R. 168, 8908, 10075, 10112
Shelton, H. M. 9313
Shelyuto, V. L. 7449
Shemyakin, M. F. 643, 12156, 12972
Shen, B. 433, 3815, 9202, 9204
Shen, B. H. 520
Shen, C. F. 11035
Shen, D. X. 1910, 7264, 12013
Shen, G. 6965
Shen, G. F. 395
Shen, G. H. 203, 6965
Shen, G. Z. 203, 1527, 4885
Shen, H. 1116
Shen, J. Q. 622
Shen, K. Q. 6120
Shen, M. 10361
Shen, N. F. 3503
Shen, P. 13407
Shen, W. 9258
Shen, W. H. 4849
Shen, X. 7253, 8879
Shen, Y. 6052, 10387
Shen, Y. B. 10984
Shen, Y. W. 2746
Shen, Y. X. 11627, 13350
Shen, Y. Z. 9219
Shen, Z. G. 2097
Shen, Z. K. 10984
Shen, Z. T. 3827, 3832, 7995
Sheng, B. C. 8382
Sheng, B. Q. 11624
Sheng, J. 540
Sheng, J. S. 6010
Sheng, Q. 1271
Sheng, W. S. 10489
Sheng, X. B. 407, 3836
Sheng, Z. T. 1609
Sheodhan Singh 4741
Sheoran, R. K. 3622-3623, 10973
Shepard, B. M. 11867
Shephard, G. S. 10680
Shepherd, K. 6871
Shepherd, K. W. 12547
Sheridan, W. F. 1413, 3737, 7910-7911, 7933, 10251, 12667
Sherman, A. 7846
Sherman, J. 4060
Sherman, J. D. 3541
Sherman, J. M. 12248
Sherman, W. 13066
Sherman, W. B. 751, 755, 4135, 11963, 11983
Sherriff, L. J. 6184
Sherry, R. A. 1822
Sherwood, J. L. 2565
Shetlar, D. J. 2169
Shetty, H. S. 2759, 6007, 9154, 10331
Shetty, S. A. 2759, 6007
Sheu, J. J. 11588
Sheu, Y. S. 891
Shevade, A. 7505
Shevchenko, V. A. 10015
Shevchenko, V. E. 3596
Shevchenko, V. V. 10276
Shevchuk, S. N. 6732
Shevell, D. 1015
Shevelukha, V. S. 3611
Sheviak, C. J. 1027
Shevlyakova, N. F. 4720
Shevtsov, I. A. 2035
Shevtsov, V. 5904
Shevyakova, N. I. 11746
Shew, H. D. 4307
Shewmaker, C. K. 930, 10585
Shewmaker, G. W. 3935
Shewry, P. R. 588, 6820, 7711, 12124
Shi, A. N. 406, 9219
Shi, B. 3947
Shi, C. H. 3827, 3832, 7995
Shi, H. P. 12488
Shi, H. Q. 7034
Shi, J. 13246, 13324
Shi, J. B. 279
Shi, J. G. 11313
Shi, J. N. 6665
Shi, L. 6774, 10660
Shi, M. 5843
Shi, M. L. 10221
Shi, N. Q. 2117
Shi, S. H. 3561
Shi, S. W. 10889
Shi, S. X. 6464
Shi, S. Y. 408, 2736, 10364
Shi, X. C. 1971, 12063
Shi, X. Y. 8894, 10073, 10463
Shi, Y. 9277
Shi, Y. P. 11973
Shi, Y. X. 6924
Shi, Y. Z. 4130
Shi, Z. B. 6303
Shi, Z. S. 9134
Shibaoka, H. 6483
Shibata, D. 7078, 7539, 8589, 10481
Shibata, M. 6559
Shibles, R. 12311
Shibles, R. M. 6130
Shibli, R. 232
Shichijo, T. 793
Shidakov, R. S. 11947
Shieh, G. J. 4847
Shieh, M. W. 4820
Shields, R. 4074
Shifriss, C. 4090
Shifriss, O. 11920
Shiga, T. 712
Shigemoto, N. 10805
Shigenaga, S. 1854, 7876
Shih, C. F. 9805
Shih, M. C. 5778, 8809, 10011
Shii, C. T. 12020
Shiina, T. 10081
Shillito, R. D. 2705
Shim, K. K. 10991
Shimada, H. 1528, 3826, 8013
Shimada, T. 427, 1309, 5133, 12470, 12500-12502
Shimamoto, K. 394, 447, 1276, 6021, 10233, 12674
Shimamoto, Y. 4123, 10908-10909, 10911
Shimamura, K. 1226-1227, 5296
Shimano, T. 11558
Shimazaki, T. 3807, 9199
Shimi, P. 13022
Shimizu, H. 11311, 12748
Shimizu, J. 10807
Shimizu, N. 365-366, 464, 3781
Shimizu, T. 8006, 9198, 10353
Shimoda, N. 1147
Shimohara, O. 5631
Shimomura, N. 3118
Shimomura, S. 8810
Shimoni, M. 2689
Shimosaka, M. 9719
Shimura, E. 12761
Shin, D. Y. 10335
Shin, K. O. 6031
Shin, Y. U. 10729
Shinada, T. 1308
Shinbashi, N. 387
Shinde, D. A. 2709
Shinde, J. B. 579
Shinde, N. V. 1746, 2926
Shinde, R. M. 10861
Shinde, S. H. 579
Shine, J. M., Jr. 6450
Shinjyo, C. 3826, 3829
Shinkai, M. 9822
Shinmyo, A. 3511, 4487, 5680, 7626, 8012, 10705, 10927, 11123
Shinoda, K. 8237
Shinoda, T. 3313, 5209
Shinohara, K. 11754
Shinohara, M. 9868
Shinomura, T. 7645
Shinozaki, K. 2352, 3509, 6680, 7620, 7660, 8013, 11205
Shinozaki, Y. 3313
Shinozuka, Y. 11563
Shinshi, H. 7404
Shintani, D. K. 10009
Shiokawa, Y. 11084
Shipe, E. R. 6124
Shipp, J. L. 11898
Shiraishi, M. 6311
Shiraishi, T. 5043
Shirano, Y. 10481
Shirasu, K. 1148
Shirato, K. 1918, 9605
Shirima, D. 12194
Shirley, B. W. 3504
Shirota, M. 6038
Shirsat, A. 9999
Shirsat, A. H. 4571, 5709
Shishkanu, G. V. 10788
Shiv Kumar 8515, 10606
Shivanna, H. 3773, 3775
Shivanna, K. R. 1144, 2063, 13131
Shivashankar, G. 1569, 5082, 6039, 10367, 13171
Shivashankar, S. 6401, 12072
Shiwani 6802, 12574
Shiyomi, M. 8352
Shkabara, T. L. 10268
Shlumukov, L. 7231
Shnol, E. E. 5793
Shoemaker, J. 5958
Shoemaker, P. B. 4307
Shoemaker, R. 12826
Shoemaker, R. C. 6124, 8157
Shogren, M. D. 3585
Shome, U. 9835
Shomura, A. 8006, 10353, 11558
Shonnard, C. B. 814
Shoran, J. 6756
Shore, J. S. 9591
Shorrosh, B. S. 3914, 10422, 12400
Short, K. 1395
Short, T. W. 72
Shoseyov, O. 9546
Shreekant Kumar 1305
Shrestha, G. K. 7990
Shrestha, H. D. 9779
Shrestha, J. N. 9918
Shrivastava, A. K. 2018
Shrivastava, D. 9779
Shrivastava, M. K. 4755, 10168
Shriver, M. D. 5792
Shriwastawa, S. N. 2745
Shroyer, J. P. 3639
Shtienberg, D. 3094, 3399, 3403, 8274
Shu, G. 7695
Shu, J. L. 13197
Shubha, K. 2759
Shugart, L. R. 3949
Shukla, A. 4212
Shukla, A. K. 13142
Shukla, K. K. 2775, 11613
Shukla, P. 3978
Shukla, R. K. 4276
Shukla, S. P. 2018
Shukla, Y. R. 2906
Shukor, N. A. A. 13278
Shulembaeva, K. K. 2562
Shull, J. M. 358
Shumnyĭ, V. K. 4944
Shuto, H. 9512
Shvetsov, A. N. 5612
Shwe, H. 6025
Shyamala Bhaskaran 12452
Shylaraj, K. S. 4894, 6384
Shyu, Y. T. 12958
Shyur, L. F. 11559
Si, H. M. 428, 6045, 9212
Si, L. T. 4031
Siadous, R. 13346
Sibale, E. M. 12671
Sibbett, G. S. 5399
Sicher, R. C. 8555
Siculella, L. 4230
Sīdarovīch, Ya. A. 10770, 11991
Siddiq, E. A. 1532
Siddiqua, A. 1607
Siddique, A. K. M. A. R. 582
Siddique, K. H. M. 7765, 8892, 12559
Siddiqui, M. A. 6517
Sidebottom, C. 5054, 6183
Sidhu, A. S. 1832, 9516, 11862
Sidhu, B. S. 1483
Sidhu, D. S. 9772
Sidhu, G. S. 388, 1538, 1573, 2775, 9236
Sidhu, J. S. 1289, 5859, 6000, 6005
Sidhu, O. P. 5515
Sidhu, P. S. 6211
Sidibe, B. 5072
Sidorenko, L. V. 10275
Sidorov, V. A. 12932
Sidorova, K. K. 10519
Sidorovich, E. A. 10770, 11991
Sidow, A. 12459
Sieczka, J. B. 4036, 9451
Sieczka, M. T. 6242
Siedler, H. 7812, 7830, 12490
Siedow, J. N. 3745
Siegerist, W. C. 2565
Siemeling, U. 9973
Siemonsma, J. S. 1886
Sierotzki, H. 8387
Sierp, M. 9801
Šiffel, P. 12148
Sifuentes Barrera, J. A. 10311
Sigarroa, A. 7548
Signer, E. R. 3498, 11215
Signer, H. 7403
Sigrist, C. J. A. 10549
Sigurbjörnsson, B. 1228
Sigurgeirsson, A. 4377
Sihachakr, D. 2954, 2985, 4174, 10626
Sijmons, P. C. 3482, 3531
Sikora, E. 5119
Sikora, R. A. 8141
Sikorski, A. F. 12440
Silander, J. A., Jr. 8108
Silas, E. G. 6626
Silayoi, B. 10803
Silberbush, M. 5996
Sildnik, K. 2613
Silen, R. R. 7495
Silfhout, C. H. van 6789
Silflow, C. D. 316, 5954, 6673
Silim, S. N. 6111, 7131-7132, 8136
Silin, A. E. 4363-4364, 11022, 13300
Sīlkova, T. A. 10097
Sills, G. 1185
Sills, G. R. 3522, 10508
Silson, R. G. 4623
Silva, A. C. da 6864
Silva, A. C. F. da 652

Silva, C. H. O. 11418
Silva, H. 4306
Silva, J. A. G. da 3259
Silva, J. B. F. da 1026
Silva, J. C. 5533, 11418
Silva, J. C. e 13312
Silva, J. S. 11159
Silva, K. M. B. e 1399
Silva, L. L. da 7442
Silva, L. O. da 5016
Silva, M. J. da 6883
Silva, M. R. e 6893
Silva, M. T. B. R. da 4272
Silva, N. 1757, 11921
Silva, P. R. F. da 5390-5391
Silva, P. S. L. e 1399
Silva, W. J. da 9156
Silva de Palacios, H. V. 8264
Silva Filho, D. F. da 5331
Silva Lima, M. 10552
Silva-Rosales, L. 4310, 9733, 9970
Silvarolla, M. B. 4273
Silveira, R. F. 5158
Silver, D. 8122, 12822
Silverthorne, J. 4385
Silvertown, J. W. 5710
Silvestri, G. 6266
Silvestro, S. di 11434
Sim, J. K. 6575
Sim, S. 7644
Simane, B. 6766, 7786
Simard, M. H. 10715
Simard, R. E. 12877
Simard, V. 10748
Simay, B. 489
Simay, E. I. 2919
Simcox, K. D. 7964, 10229, 10265, 10292-10293
Simeone, A. M. 11985
Simeonova, N. 704
Simeti, C. 6277
Šimko, I. 7162, 8250
Šimková, M. 12148
Simlot, M. M. 12098
Simmonds, J. 156, 4733, 5354
Simmonds, N. V. 1911
Simmonds, N. W. 8773
Simms, E. L. 3402, 4433
Simón, A. 1824
Simon, A. E. 7654
Simon, B. K. 2814, 2816, 9275-9276
Simon, C. J. 8131
Simon, G. W. R. 2196
Simon, J. E. 7569, 8742
Simon, J. W. 4680
Simon, M. 27, 7580
Simon, P. 7157
Simon, P. W. 636, 3015, 7196, 9510
Simonenko, V. K. 1382
Simonne, A. H. 11851
Simpson, C. 3485
Simpson, C. E. 3244, 12091
Simpson, C. G. 9986
Simpson, D. 2604
Simpson, D. J. 2608, 3677
Simpson, E. 10173
Simpson, G. G. 3485
Simpson, J. 11616
Simpson, R. D. 1105, 1695
Simpson, R. J. 9252
Sims, J. J. 1116, 10649
Sims, S. R. 3330
Şimşek, G. 7207
Šimúth, J. 5453
Sin, S. 3796
Sinclair, B. K. 12971
Sinclair, T. R. 6134
Šindelář, L. 3311
Šindelářová, M. 3311
Sinden, S. L. 1784, 4005-4006, 11819
Sindhan, G. S. 2929
Sindhu, A. S. 1957
Sing, C. F. 4610
Singburaudom, N. 11610
Singer, D. 11747
Singh, A. 1321, 2088-2089, 2182, 7172, 8270, 9472
Singh, A. K. 892, 6413, 6752, 9208, 9411, 11770, 13161
Singh, A. P. 5419
Singh, B. 3533, 5382, 6285, 6607, 7100, 11942, 13039
Singh, B. B. 510, 587, 8222, 11770
Singh, B. D. 212, 1292, 4274
Singh, B. K. 7595
Singh, B. M. 7551, 8230, 10141
Singh, B. P. 4166, 5744
Singh, C. 1709, 7081
Singh, C. B. 215, 2880
Singh, C. V. 7998
Singh, D. 213, 564, 696, 2912, 5344, 5346, 6987, 9516, 10843, 10849
Singh, D. K. 11876
Singh, D. N. 3958, 8519, 10507
Singh, D. P. 1750, 1955, 2923, 5197
Singh, D. V. 248, 7814, 8270
Singh, F. 212, 1292
Singh, G. 568, 571-572, 849, 1917, 3207, 3978, 5501, 6895, 7100, 7144, 7153, 10498, 10541, 12846
Singh, G. B. 1538, 2018
Singh, H. 886, 2559, 6063, 7795, 9516, 10843, 10849
Singh, H. B. 8481
Singh, H. N. 888, 12647
Singh, H. P. 1855, 4171, 4175, 12647
Singh, I. 849, 6758, 11323, 11332
Singh, I. D. 12117
Singh, I. P. 4321
Singh, I. S. 9411
Singh, J. 251, 1522, 1816, 1855, 2775, 4984, 5196, 5500, 6211, 7133, 7144
Singh, J. R. P. 9698
Singh, J. V. 595, 1773
Singh, K. 2852, 3194, 3207, 5985, 7371, 8532, 9414
Singh, K. B. 60, 1753, 2931, 6113, 6201, 6207, 6630, 7075, 7134, 8209-8210, 10529-10530, 10538
Singh, K. N. 2520, 6764, 7788, 11350
Singh, K. P. 205, 6758, 11323, 11351, 11771, 12647
Singh, L. 8298, 12914
Singh, L. N. 518
Singh, M. 830, 832, 1627, 3985, 4317, 4324, 4341, 4984, 5500, 6895, 7106, 7144, 7153, 7418, 8519, 9118, 9397, 10498, 11735, 11763
Singh, M. B. 1203, 11215
Singh, M. K. 5563
Singh, N. 13240
Singh, N. B. 423, 3357, 7128, 8212, 10743, 11589
Singh, N. K. 423, 4012, 6037, 8503, 11589
Singh, N. N. 1407
Singh, O. 883, 2925, 5420, 10543
Singh, O. S. 3759, 9149
Singh, P. 835, 839, 1750, 2085, 2094, 2923, 5059, 6514
Singh, P. K. 7128
Singh, R. 4082, 4154-4155, 7133, 9243, 11779, 11942, 12912
Singh, R. A. 10546
Singh, R. J. 3943, 5705, 12837
Singh, R. K. 8510, 8519, 9472
Singh, R. M. 1758
Singh, R. N. 5664
Singh, R. P. 256, 1955, 2552, 2745, 4729, 6223, 8930, 10147
Singh, R. S. 5111, 5536
Singh, R. V. S. 1476
Singh, S. 257, 833, 1503, 1741, 3207, 4274, 4741, 4995, 6203, 6773, 7140, 8510, 9279, 10606
Singh, S. B. 1486, 4276
Singh, S. D. 6947
Singh, S. K. 2709
Singh, S. P. 1041-1042, 1927, 2091, 2884, 3325, 4328, 5016, 9386, 10971-10972, 11743
Singh, S. R. 587, 8928
Singh, S. V. 5382
Singh, T. H. 2086, 2094, 3318, 3324
Singh, T. P. 8152, 12846
Singh, U. D. 578
Singh, U. P. 1758
Singh, V. 3251, 5015
Singh, V. N. 2939
Singh, V. P. 595, 1535, 1769, 2939, 4317, 4324, 7124, 7418, 10524, 10558
Singh, V. V. 2085, 6511
Singh, Y. P. 1503, 3622-3623
Singhania, D. L. 1762
Singla, S. L. 8039
Singsit, C. 5400
Sinha, B. K. 3978, 10546
Sinha, B. R. R. P. 5563
Sinha, M. M. 9445
Sinha, N. 326, 5970
Sinha, P. 10577
Sinha, P. K. 3216, 7998, 10845
Sinha, R. P. 563
Sinha, S. K. 1111, 6202
Sinha, V. C. 4741
Sinhamahapatra, S. P. 957, 1995, 10891
Sinibaldi, R. M. 5989
Sinkovič, T. 1285
Sinnaeve, G. 5050
Sint Jan, V. van 1242
Sio, F. de 6266
Šíp, V. 2469, 2490, 4690, 4703, 11403
Siqueira, W. J. 5179, 6273
Sîrca, C. 12821
Siregar, I. Z. 9814
Siregar, U. J. 7726
Sirikul, W. 10989
Siripin, S. 6225
Siriwardena, K. P. D. 1868
Sirkka, A. 3703
Sirohi, A. 7113
Sirohi, P. S. 627, 4114
Sirotin, V. M. 11762
Sisco, P. H. 5969
Sissoef, I. 7733
Sisson, V. A. 2050, 3291
Sisson, W. L. 8949
Sita, G. L. 1060
Sitaramam, V. 8791
Sitbon, F. 7401
Sitch, L. 1228
Sitch, L. A. 6033
Siti Hajar Ahmad 13409
Sivagamasundhari, S. 1885
Sivaguru, M. 12754, 12758-12759, 12919
Sivakumaran, K. 3869
Sivan, P. 6376
Sivanadyan, K. 9764
Sivaprakasam, K. 5734
Sivaramakrishnan, S. 11536, 12701
Sivaraman, M. R. 12099
Sivasamy, N. 9447
Siviero, P. 6266
Sivolap, Yu. M. 10078
Sizova, L. I. 10864
Sjaastad, E. O. 8621
Sjödahl, S. 5352, 12046
Sjögren, P. 6691
Sjulin, T. M. 4146
Škaloud, V. 7334
Skalska, M. 4943
Skaltsa, H. 9877
Skerritt, J. H. 1312
Skibinski, D. O. F. 8829
Skinner, D. Z. 478-479, 1653, 6916, 6922, 9290-9291
Skirvin, R. M. 3559, 6314, 7298
Skoczek, H. 277
Skogley, C. R. 1630
Skogsmyr, I. 12929
Škorić, D. 6356, 7336, 7339, 11854
Škorpík, M. 2490, 4690, 4703, 11403
Skorupska, H. T. 4106, 6124, 10492
Skøt, L. 501
Skou, J. P. 12622
Skovmand, B. 7720, 8874
Škrbec, K. 1299
Škrdleta, V. 7115
Skripnikov, A. Yu. 11664
Skroch, P. 8304
Skroch, P. W. 3959
Skrøppa, T. 2143, 13313
Skrzeczkowska, S. 614
Skrzynia, C. 2245
Skubisz, G. 5364
Slabas, A. 6183
Slabas, A. R. 4205, 4680
Slabbert, M. M. 5651
Slack, K. 12790
Slack, S. A. 8271, 8570, 9451, 10596-10597, 11816, 11841
Slafer, G. A. 5870, 10070, 10092, 11136
Slageren, M. van 7827
Slageren, M. W. van 7803
Slama, O. 6844
Ślaski, J. J. 8784, 10065
Slater, A. 12324
Slater, A. T. 8851
Slatkin, M. 4614, 7679
Slee, A. V. 10994
Šlekytė, K. 3288
Sleper, D. A. 2798, 7027, 9256, 11641, 12793
Sliesaravičius, A. 2785, 2797
Slightom, J. L. 724, 2328, 9969, 10944
Slinkard, A. E. 7073, 8204, 9265
Slipčević, V. 8160
Slocombe, S. P. 10836
Slocum, M. K. 3047, 4028, 6250, 8304, 9517
Slocum, R. D. 547, 10518
Sloten, D. H. van 1876
Slovin, J. P. 150
Slowinski, J. B. 126
Sluder, E. R. 4369
Slusarenko, A. J. 2886, 5739
Ślusarkiewicz-Jarzina, A. 225
Slyusarenko, A. N. 4744
Smale, J. G. 4612
Small, E. 2835, 3916, 11264
Small, I. 9976, 12233
Small, I. D. 606
Smalle, J. 67
Smart, C. J. 4233, 10857, 10859
Smart, C. M. 6723
Smartt, J. 2038
Smartt, S. 4203
Smeda, R. J. 4012
Smedegaard-Petersen, V. 7857
Smeekens, S. 3520
Smeekens, S. C. M. 8553, 10574
Smeeton, B. W. 3296
Smeets, K. 632, 8703
Smelíková, Z. 1453
Śmiałowski, T. 8982
Smied, I. 517
Smigocki, A. 937
Smigocki, A. C. 10939
Smiley, R. W. 2568
Smirnov, S. P. 9734
Smirnov, V. G. 5937-5938, 12645
Smirnova, L. A. 2554
Smishuk, N. G. 292
Smit, I. B. J. 4807
Smith, A. G. 1120, 1828, 2904, 7861, 8324, 8332, 9718
Smith, A. M. 6180
Smith, B. G. 3223, 6466
Smith, B. J. 8422
Smith, C. 4603, 8238

Smith, C. A. 12324
Smith, C. J. 5709
Smith, C. K. 4367
Smith, C. M. 10152, 13416
Smith, C. R., Jr. 953
Smith, D. 924
Smith, D. A. 1859, 4108
Smith, D. H. 4785, 7367, 8506
Smith, D. L. 5903, 7779, 11389
Smith, D. R. 4844
Smith, D. W. 8793
Smith, E. L. 214, 3608, 3647, 3665, 11330
Smith, E. M. 1893
Smith, G. A. 6940
Smith, G. F. 1024
Smith, G. R. 6455
Smith, G. S. 13180
Smith, H. 80, 3285, 10664
Smith, H. G. 6457, 8527
Smith, J. B. 5841
Smith, J. D. 7945, 9137
Smith, J. F. 2398, 2400-2401, 4510, 11125, 13344-13345
Smith, J. K. 908
Smith, J. S. C. 7918, 9018
Smith, L. G. 9077
Smith, M. A. 1649-1651, 2823, 3908-3909, 12124
Smith, M. A. H. 7330-7331
Smith, M. A. L. 6073
Smith, M. E. 302, 346, 11665
Smith, M. F. 5103
Smith, M. K. 6321, 13091
Smith, M. L. 1083
Smith, M. W. 10470, 13069
Smith, N. L. 9579-9580
Smith, N. M. 3529
Smith, O. D. 3244, 3246, 8506, 12091
Smith, O. S. 7877, 11442
Smith, P. 1627
Smith, P. H. 5923, 10190
Smith, R. C. G. 4656
Smith, R. D. 4911
Smith, R. H. 12264, 12452
Smith, R. J. 5709
Smith, R. L. 11536
Smith, R. M. M. 9793
Smith, S. 9015-9017, 10226
Smith, S. B. 603, 8652
Smith, S. E. 1656, 4432, 7850, 9287, 11667, 13282
Smith, S. P. 7805
Smith, S. R., Jr. 6079
Smith, V. A. 7112
Smith, W. A. 2175
Smith, W. K. 2828
Smith-Huerta, N. L. 1003
Smithard, R. 2429
Smithson, A. 3199
Smits B., G. 8694
Smittle, D. A. 7197
Smole, J. 1891, 9647, 10730-10731, 10736, 10829-10830
Smolenskaya, I. N. 4708
Smolenskaya, S. É. 4944
Smolin, V. P. 6846-6847
Smook, L. 4874
Smouse, P. E. 2809, 9870, 11251
Smulders, M. J. M. 8329, 12998
Smulevitch, Y. 12090
Smulikowska, S. 4959
Smutkupt, S. 9351, 10478
Smyth, D. R. 7649
Snajberk, K. 2136
Snape, J. W. 233, 5941, 6742, 7820, 8897, 10173
Snaydon, R. W. 1, 14
SNC Meilland et Cie 3378
Sneller, C. H. 9321, 9329-9330
Snidaro, M. 4652
Sniezko, R. 12255
Snijders, C. H. A. 4731, 6785
Snijman, D. A. 2206
Snook, M. E. 2700, 12685
Snow, A. A. 1038, 2185, 10630
Snow, J. P. 10491
Snowball, A. M. 9621
Snowden, K. C. 3646
Snustad, D. P. 316, 1153, 5954, 6673
Snyder, G. H. 6448, 9229, 12106
Snyder, G. W. 11806
Snyder, K. 7924
Snyder, R. G. 11923
Snyman, S. J. 12104
Soare, G. 7355
Soare, T. 524
Soares, A. A. 6964, 11546, 12707
Soares, P. C. 6964
Soave, C. 2361
Sobral, B. W. S. 2005, 7374, 13178
Sobti, S. N. 2235
Soby, S. D. 1959
Sochaj, J. 11765
Sodani, S. N. 342
Sodhi, H. S. 4489, 4507
Sodhi, S. K. 10153
Sodhi, Y. S. 630, 4215, 10841
Sodi, F. 10665
Sodkiewicz, T. 3675
Sodmergen 12232
Soeldner, A. 9653
Soerianegara, I. 8756
Søgaard, M. 5906
Sogawa, K. 8056
Soh, A. C. 3222
Soh, W. Y. 8370
Sohoo, M. S. 482, 1409, 1950
Sohu, R. S. 1410, 1425, 2086
Sohu, V. S. 1533, 1539, 2086, 6972
Soichi, N. 9879
Soja, G. 7187
Soják, J. 7518
Sokal, R. R. 1175
Sokhi, S. S. 13168
Sokirko, A. 7474
Sokirko, V. P. 8415
Sokolov, V. A. 8875
Sokolova, N. P. 327
Sokolova, S. M. 1063
Solaiman, M. Z. 1323
Solankey, B. S. 2709
Solanki, I. S. 7124
Solar, A. 9647, 10829-10830
Soldati, A. 9144, 11695, 12863
Soldatov, V. N. 6865
Soler, C. 1633
Solh, M. M. B. 11769
Söll, D. 312, 6676
Soll, J. 9523
Soller, M. 5790
Sollinger, J. D. 7927-7928
Solntsev, M. K. 5216-5217
Solomatin, D. A. 2554-2555
Solomon, R. M. 8261
Solomon-Blackburn, R. M. 613, 3004, 10604, 12945
Solomos, T. 10506
Solórzano, R. 9483
Solórzano Vega, D. E. 5388
Solórzano Vega, E. 5006, 5388
Soloveĭ, A. E. 4857
Soloviev, A. A. 1172
Soltani, A. A. 9148
Soltani, N. 7097
Soltero Díaz, L. 6941
Soltis, D. E. 113, 2379, 2398, 3350, 3398, 4430, 5819
Soltis, P. S. 113, 2398, 3350, 4430, 5819, 7125, 8089
Solymosy, F. 7604, 11878
Som, M. G. 10550
Soman, P. 363, 7980
Somashekhar, R. 10899
Somasundar, M. 7225
Somers, D. A. 4786, 4789
Somers, D. E. 4595
Somers, D. J. 2516, 11413
Somerville, C. 46, 10010, 11191, 12093
Somerville, C. R. 8820
Somhorst, D. 5639
Somkuwar, R. G. 11907, 11909
Somleva, M. 4914
Sommer, H. 910, 6581, 8697, 10549
Sommer-Knudsen, J. 11394
Somssich, I. E. 8740, 11110
Son, C. G. M. van 6818
Son, S. Y. 1998
Son, Y. H. 1582
Sonakia, V. K. 5064
Sonawane, M. N. 10551
Söndahl, M. R. 854, 4289, 5179, 6367
Song, G. H. 7944, 9135-9136
Song, H. P. 7263
Song, H. S. 1313
Song, J. C. 335
Song, J. S. 7756
Song, J. Y. 8004, 11554, 11563
Song, K. M. 6250
Song, N. H. 9919
Song, P. 11861
Song, Q. X. 3828
Song, T. M. 7944, 9135-9136
Song, W. C. 431, 3817
Song, W. Q. 12326
Song, W. Z. 4742
Song, X. J. 3169
Song, X. X. 952
Song, Y. C. 2728
Song, Y. G. 3852
Song, Y. X. 3344
Song, Z. Q. 10960
Songstad, D. 7956
Songstad, D. D. 338
Soni, D. K. 6971
Soniya, E. V. 13383
Sonko, A. 5295
Sonnante, G. 5004
Sonnenberg, A. S. M. 4494, 13401
Sonnewald, U. 3579, 6232, 6256, 8248, 10566, 11192, 12147
Sonnino, A. 4020
Sontag-Strohm, T. 8911
Sontakey, P. Y. 6955, 7415
Sontakke, B. K. 10894
Sood, A. 11121
Sood, V. K. 4993, 8156
Sooksathan, K. 8514
Sooriamuthu Seeni 4478
Sophol, S. 7997
Sopkovčík, M. 1453
Sopory, S. 8310
Sopory, S. K. 6055
Soran, V. 106
Soreng, R. J. 10411, 11623
Sorensen, A. 4593
Sorensen, E. L. 478-479, 9290-9291
Sorensen, F. C. 13296
Sørensen, H. 13133
Sorensen, L. H. 10598
Sørensen, M. 11856
Sorenson, F. C. 2149
Sorensson, C. T. 8127, 9313, 9318-9319
Soressi, G. P. 6267
Soria, C. 12260
Soria, M. 4472
Soriano, A. 10863
Soriano Cano, M. C. 9939
Soriano-Ferrufino, J. 9940
Soroka, A. I. 1463, 6900
Sorokin, S. N. 2810
Sorrells, M. 4770
Sorrells, M. E. 3259, 3572, 5699, 5932, 7699, 7732, 7762, 10131, 12519
Sorte, N. V. 8036
Sosnikhina, S. A. 12645
Sosnikhina, S. P. 2652, 11408
Sosnovskaya, T. F. 6709
Sosnowski, S. 5036
Sossountazov, L. 5290
Sotirova, V. 5189
Sotirova, V. G. 5183
Soto, M. J. 5201
Sotomayor Sánchez, J. A. 9939
Sotta, B. 4207
Souciet, G. 9976
Souer, E. 3413
Soukup, V. G. 6588
Soundarapandian, G. 11590, 11611, 12712
Soundararaj, A. P. M. K. 7992
Sounigo, O. 4286
Souq, F. 5624
Sousa, A. F. de 12707
Sousa, A. P. M. de 9778
Sousa, C. N. A. de 4674
South, J. B. 12476
Southern African Centre for Cooperation in Agricultural Research 5828
Southworth, D. 323, 2211
Soutome, K. 281
Souvré, A. 5349, 11847
Souza, B. 5016
Souza, E. 174, 3588, 3630, 8874
Souza, E. A. de 11737
Souza, N. A. de 5070, 13243
Souza, P. I. M. de 4907, 4983
Souza dos Santos, O. 11740
Souza Júnior, C. L. de 86, 3459, 4621, 6879
Souza Machado, V. 1791, 12939
Sowei, J. W. 5132
Sowokinos, J. R. 6238
Spada, P. 1325
Spaeth, S. C. 9409, 11767
Spagnoletti-Zeuli, P. L. 3980
Spagnoletti Zeuli, P. L. 4667, 7691
Spagnoletti Zeuli, P. L. S. 3957
Spaink, H. 2266
Spaink, H. P. 557
Spampinato, C. P. 8699
Spaner, D. 340, 7961, 8420
Spangenberg, G. 4920, 8073, 8733, 12786
Spanje, M. van 1778
Spano, A. J. 2904
Spanò, L. 7388
Spanu, F. 481
Spârchez, C. 106
Sparks, D. 815, 9649
Sparnaaij, L. D. 3461, 3538
Sparrow, D. H. B. 5917
Sparvoli, E. 8191
Sparvoli, F. 3109, 8429, 9140
Spaull, A. M. 261
Specht, A. 8234
Specht, J. E. 1701, 6129, 11166
Speed, T. P. 2366
Speek, E. J. 721-722
Spehar, C. R. 4907, 4983, 12861
Speijer, P. 8435
Speirs, J. 8379, 10758
Spena, A. 910, 5757, 12381
Spencer, D. 2839, 6107, 11672
Spencer, D. F. 1245, 11405
Spencer, H. G. 5822
Spencer, J. A. 2170, 3383-3384
Spencer, T. M. 4819
Spencer-Phillips, P. T. N. 9408
Speranza, S. 4151
Sperisen, C. 3478
Sperling, L. 11738
Sperlingsson, K. 10204
Spidle, A. 10402
Spielmann, A. 6481, 10466
Spiers, J. M. 13075
Spies, J. J. 8087-8088
Spike, C. 7900
Spiker, S. 13206
Spindler, L. H. 3536
Spinks, M. 6912
Spira, T. P. 2185
Spirito, F. 4613
Spivey, R. 4075
Splittstoesser, W. E. 7195
Sponga, S. 697
Spongberg, S. A. 4389
Spooner, D. M. 3568, 8233, 11791, 12940-12941
Spoor, W. 1083, 6067
Spore, C. D. 11184
Spreitzer, R. J. 1135
Sprent, J. I. 124

Spriet, C. 2031
Springer, P. S. 3731
Springer, T. L. 2803, 6739, 9264
Spronk, B. A. 8553
Špunar, J. 2577, 2614, 12584
Srba, V. 10904-10905
Sree, P. S. 363
Sree, T. J. 5193
Sreedhar, D. 7345
Sreekumar, P. V. 2124
Sreelatha, P. C. 6387
Sreelathakumari, I. 11892
Sreenath, H. L. 6469, 9929
Sreenivasan, J. 5414, 5417
Sreenivasan, M. S. 3275, 6467-6468
Sreenivasan, T. V. 5414, 5417
Sreerengasamy, S. R. 11784
Sributroj, W. 9340
Sridhar, R. 7362
Sridharan, C. S. 1973
Srienc, F. 9058
Srihari, D. 641, 10639
Srinivas, S. 10884
Srinivas, T. 12095, 13170-13171
Srinivasaiyer Ramesh 13397
Srinivasan, C. 3894
Srinivasan, K. S. 10877
Srinivasan, M. R. 8823
Srinivasan, R. 10520
Srinivasan, T. E. 2725
Srinives, P. 1770, 5079, 10034, 11715, 12856
Sriprasertsak, P. 5043, 9340
Srisink, S. 8523
Sriskandarajah, S. 8379
Srivastav, D. P. 8747
Srivastav, P. K. 8747
Srivastava, A. N. 215, 3624
Srivastava, B. L. 4271
Srivastava, D. P. 1689
Srivastava, H. M. 2026
Srivastava, K. 1937, 1952
Srivastava, K. D. 248, 7814
Srivastava, K. M. 5744
Srivastava, P. K. 5562
Srivastava, R. B. 1307, 2450, 4705
Srivastava, R. C. 9887
Srivastava, S. K. 9636
Srivastava, S. N. L. 8515
Srivastava, U. C. 11901
Srivastava, V. 5899
Srivastava, V. K. 1816
Šroller, J. 5430
Sta. Cruz, F. C. 3859
Sta. Cruz, P. S. 1552
Stabbetorp, O. 11060
Staccy, J. 12489
Stace, C. 9277
Stace, C. A. 2800, 3881
Stacey, G. 912, 2266
Stachewicz, H. 2988
Stack, R. W. 7797
Stack, S. 4060
Stack, S. M. 3541
Stadelmann, E. J. 4658, 11390
Staden, J. van 2204, 2694, 3396, 4448, 5530, 6898, 13180
Stadler, R. 911, 11204
Städtler, S. 2074
Staehelin, L. A. 4291, 7709
Stafford, A. 1043
Stahl, A. 4628
Stahl, B. 7202
Stahl, D. 2307
Stahl, F. W. 4627
Stahl, U. 12305
Stahn, T. 13360-13361
Staiger, C. 110
Staiger, C. J. 310, 1411, 3738, 5799
Staiger, D. 842, 8492, 9676
Stains, J. P. 12262
Stair, D. W. 8090
Štajner, D. 4699, 4701
Stålberg, K. 4204
Stalings, G. P. 8060
Stalker, D. M. 10585
Stalker, H. T. 4254, 4264, 5401, 6412, 7359
Stall, R. E. 5184, 10679, 11963
Stallknecht, G. F. 11371
Stam, M. E. 2198
Stam, P. 12995
Stamp, P. 3577, 5981, 9122, 9144, 10118, 11695, 12863
Štampar, F. 1891, 9647, 10730-10731, 10736
Stanca, A. M. 2345, 10154, 11392
Stancheva, Ĭ. 5188
Stancombe, P. 11282
Stănescu, Z. 2027
Stanford, A. C. 2825
Stange, N. 1142
Stanghellini, M. 8313
Stanienė, G. 3113
Stanilova, M. I. 11081, 11087
Stanisavljević, M. 7252
Stanko, S. A. 11447
Stanković-Opsenica, S. 10793
Stankovics, L. 8899
Stanley, J. 3487
Stansberry, M. 5617
Stanton, M. 12963
Stanton, M. A. 8579, 10957
Stanton, M. L. 6714
Stanwood, P. C. 11314
Stanys, V. 3113, 3147, 3149
Stapleton, A. 11800
Stapleton, A. E. 9069, 12669
Stapp, B. R. 9755
Starichkova, N. I. 1311, 12543
Staritsky, G. 8297
Stark, D. M. 3724
Starke, J. 9997
Starke, R. 3343, 8597
Starling, T. M. 8949
Starlinger, P. 5964
Starr, J. L. 12091
Starrantino, A. 7303
Starrett, D. A. 3180
Stasey, V. J. 3125
Staskawicz, B. J. 1168, 3529-3530, 5184, 10677
Stassen, P. J. C. 10818
Staszewski, Z. 460
Staszkiewicz, J. 4348, 7439
Statler, G. D. 4745
Stattmann, M. 4473
Staub, J. E. 723, 6289, 7241, 11901, 11931
Stauffer, A. 4380
Stavely, J. R. 11748
Staveren, M. J. van 3098
Stawiszyńska, A. 614
Stead, D. E. 3045
Steadman, J. R. 7103
Stearn, W. T. 2125, 6573
Stearne, P. A. 2299
Stec, A. 328, 2684
Stecca, K. L. 1154, 13122
Steed, A. 324
Steel, M. 5824
Steen, P. 1209
Steenackers, M. 8606, 8612
Steenackers, V. 8606, 8612
Steenbergen, H. van 2815
Steenkamp, J. 11999
Stefanelli, S. 6828
Stefani, A. 9269
Stefaniak, B. 8707
Stefanini, F. M. 1460
Stefanis, E. de 11401
Stefanov, I. 5355
Steffens, J. C. 1799
Steffensen, D. M. 7912
Steffenson, B. J. 2639, 5921, 10193, 11395
Stegemann, H. 1813
Stegmaier, S. 1144, 1230
Stegmark, R. 7119
Stehno, Z. 2281, 4671, 4711, 11339
Stein, A. 4133
Steinberg, C. M. 4627
Steinberger, J. 134
Steiner, A. M. 12601
Steiner, J. J. 2848, 6095, 9311, 11687
Steiner, K. E. 9893
Steiner, W. 51
Steinhagen, S. 9606
Steinhauer, L. 4678
Steinkellner, H. 5467
Steinmayr, M. 8697
Steinmetz, A. 3217, 13143
Steinmüller, K. 12465, 12471
Steinrücken, G. 12113
Stejskal, J. 11704
Stekar, J. M. A. 1424
Stelling, D. 10494-10497, 10499
Stelly, D. M. 7409
Stel'makh, A. F. 10105
Stenhagen, G. 4873
Stenzel, K. 3298
Štěpánková, J. 3392, 6572
Stepanov, N. V. 3352
Stephan, U. 247, 12570
Stephan, W. 4612, 11174
Stephani, V. 7552
Stephens, P. A. 3951, 6131
Stephens, S. K. 4507
Stephenson, A. G. 2182, 3393, 6287
Stephenson, M. G. 3564
Stępniewski, A. 4724
Steponkus, P. L. 2754
Steppuhn, J. 6255
Stergios, M. 6825
Sterk, P. 1803
Sterling, J. D. E. 7834
Stermer, B. 2350
Stern, D. B. 9979
Stern, R. A. 4185
Stern, R. D. 866
Stern, W. L. 9899-9900
Sterrett, S. B. 8235
Stettler, R. F. 8600, 9803
Steveninck, R. F. M. van 7286
Stevens, J. P. 11859
Stevenson, D. 11255
Stevenson, D. W. A. 12109
Stevenson, T. W. 3412, 4440
Steverink-Raben, A. 9251
Steward, J. M. 8579
Stewart, C. B. 12459
Stewart, C. R. 5984, 10290
Stewart, H. E. 613, 8261, 8276
Stewart, J. M. 10957
Stewart, S. C. 13311
Steyer, S. 10194
Steyn, E. M. A. 9629, 12018
Steyn, P. J. 5103
Sthapit, B. R. 1597
Stibilj, V. 1424
Stichler, C. 3314
Sticklen, M. B. 3894, 4390
Stiefel, V. L. 2714
Stiegler, P. 6092
Stiekema, W. J. 1778, 5117, 5463, 6653, 7166, 8543, 11811, 12946
Stieve, S. M. 4429
Stiff, C. M. 264
Stikić, R. 9960
Stimart, D. P. 4429
Stinard, P. S. 3720, 3726, 7901, 9031, 9079-9082, 9085, 10249
Stine, M. 5520
Stinson, J. 3289
Stintzi, A. 5469, 6506
Stipo, A. 2966
Stitt, M. 6232, 6256, 6493, 8248, 12145, 13226
Stobart, A. K. 12124
Stockel, J. 5299
Stöcker, R. H. 3298
Stockhaus, J. 7521
Stockinger, E. J. 10467
Stockton, M. 13405
Stoddard, F. L. 1717, 7070, 8189-8190
Stoddart, J. 8758
Stoehr, M. 13259
Stoehr, M. U. 5536
Stoeva, I. 1258
Stoffella, P. J. 3096
Stöger, E. 1144
Stohbach, B. 2253
Stoĭko, S. M. 4534
Stoimenova, E. 5189, 10942
Stoinova, J. 8990
Stojanović, J. 7817
Stojanović, S. 7817
Stokhof, E. M. 6628
Stølen, O. 11856, 13133
Stolz, J. 10004, 11204
Stommel, J. R. 8358, 13012
Stomp, A. M. 12197
Stone, B. C. 2127, 11113
Stone, T. B. 3330
Stoner, K. A. 1118, 11867
Štorchová, H. 12140
Storlie, E. W. 5875
Storti, E. 6277, 8342, 8344
Stösser, R. 5232, 5335
Stösser, T. 3696
Stothers, S. C. 1249
Stotz, H. U. 12996
Stougaard, P. 4565
Stougaard, R. N. 11371
Stouthamer, A. H. 7366
Støvlbaek, J. 11173
Straathof, T. P. 3419
Straatman, K. 8475
Strabala, T. 11209
Strabala, T. J. 8149
Strada, G. della 5250, 7269, 11976
Straeten, D. van der 661
Straková, V. 5660
Stram, Y. 10949
Strange, R. N. 13169
Strassmann, J. E. 7663
Stratford, R. 4074, 5122
Stratton, S. D. 9280, 9292
Straulea, M. 10740
Straus, N. A. 5643
Strauss, M. S. 3466
Strauss, S. H. 2398, 3339, 6538, 10049, 13293
Strautina, S. 3141
Straw, R. A. 6295
Strazdina, V. 2506, 11354
Strazdinya, V. A. 1261
Streeter, M. N. 1484, 4864
Strelchenko, P. P. 8881
Stricker, C. 12431
Strid, Å. 12899
Stringam, G. R. 1932, 9673, 12044
Stringer, J. K. 8523
Strittmatter, C. D. 1676
Strittmatter, G. 3496
Strobeck, C. 7481
Strobl, S. 2264
Stroev, E. S. 13045
Stromberg, E. L. 2546, 2690
Strommer, J. 1014, 2199, 2266, 2325
Strong, D. R. 976-977
Stroup, W. W. 5855
Struck, F. 9726
Struckmeyer, B. E. 11931
Struik, P. C. 6766, 7786
Struss, D. 10850
Struzhko, V. S. 10278, 10280
Stubblefield, R. S. 4042
Stuber, C. W. 5969
Stuchlíková, E. 2536, 2561, 3658, 4740, 6779, 10143, 11364
Stucker, H. 6734
Stucker, R. E. 3685
Stuczyńska, J. 4910
Stuessy, T. F. 131
Stühler, I. 12897
Stuitje, A. 5759
Stuitje, A. R. 2198
Stukely, M. J. C. 13267
Šturc, T. 10905
Sturm, A. 79, 4013, 10613
Sturtz, G. 13396
Stuteville, D. L. 478-479, 9290-9291
Stuthman, D. D. 2643-2644, 3685, 3688
Stutz, E. 10466

Stutz, J. C. 8059
Stützel, H. 11683
Styk, B. 12776
Styles, E. D. 3747, 10262
Stymne, S. 7325, 9658
Su, C. Y. 11973
Su, D. D. 6315
Su, H. 11499
Su, J. G. 2104
Su, X. H. 5547
Su, X. W. 10741
Su, Y. B. 3798
Suan, J. K. 453
Suárez, R. 475
Suárez, Z. 9483
Suassuna Filho, J. 4236
Subbaiah, C. C. 10291
Subbalakshmi, B. 12169
Subda, H. 8886
Subedi, L. P. 11545
Subhadrabandhu, S. 11929
Subhan, F. 1273
Subhash Chander 4705
Šubová, D. 2964, 10582
Subrahmanyam, G. S. 8556
Subrahmanyam, N. C. 11536
Subrahmanyam, P. 1073, 7367
Subramaniam, J. 3914
Subramanian, A. R. 47
Subramanian, M. 9443, 11550, 12712-12713
Subramanian, S. 5504, 7139
Subramanyam, D. 7237
Subramanyam, M. D. 4183, 4190
Subudhi, P. K. 9672
Sud, A. K. 8489
Sudagar Singh 1741
Sudahono 13100
Sudama Singh 4274, 8510
Sudarmonowati, E. 5131
Südbeck, P. 7941
Šuderlová, L. 10794
Sudha, C. G. 4478
Sudhakar, C. 7299
Sudhakar, G. K. 9243
Sudhakar, Y. 5898
Sudharshana, L. 1772
Sudhir Kumar 871
Sudoi, V. 5439
Sudupak, M. A. 2696
Sue, N. 8006, 10353, 11558
Suenaga, K. 1431, 3610
Sueoka, N. 8847
Suganthi, C. P. 298, 6731
Suganuma, N. 7116, 8198
Sugawara, K. 387
Sugg, D. W. 8832
Sugha, S. K. 541, 3040, 3782, 9419, 12767
Sughroue, J. R. 7943
Sugimoto, A. 2011
Sugimoto, K. 7898
Sugimoto, T. 7078
Sugimoto, Y. 3049
Sugimura, Y. 1974-1975, 8746, 13152-13153
Sugita, M. 2056, 5444, 5452
Sugiura, A. 811, 5329, 10819
Sugiura, H. 9889
Sugiura, K. 10408
Sugiura, M. 932, 2056, 5444-5445, 5452, 7389, 8548, 10933, 12128, 12208
Sugiyama, M. 12422
Sugiyama, Y. 1525
Suh, D. Y. 4757
Suh, H. S. 4757, 5360
Suh, S. C. 6022, 6046
Suharsono, S. 10088
Suhasini, K. 569
Suhendi, D. 5566, 9806
Sui, E. 6820
Sujata, V. 12701
Sujata Saxena 10976
Sujatha, M. 874, 6565
Sukarin, W. 9959
Sukhanberdina, É. 11138
Sukhapinda, K. 3725
Sukhdev Singh 6203
Sukhvibul, N. 9861
Sukhwinder Kaur 13168
Sukhwinder Singh 3207
Sukopp, H. 4
Sukopp, U. 4
Suksathan, I. 8514
Sukumaran, K. M. 6385
Sulaiman, I. M. 1006, 8686
Sulaiman, S. N. 634
Süle, S. 13087
Sulewska, H. 11468
Sulikeri, G. S. 6335
Sułko, J. 288
Sulli, C. 2905
Sullivan, C. F. 2036
Sullivan, C. Y. 12691
Sullivan, J. A. 5266-5267, 11996
Sullivan, J. G. 5180
Sullivan, J. S. 1449
Sullivan, M. L. 4575, 7615
Sullivan, T. D. 9096
Sulmont, G. 749
Sulzer, A. M. 5594
Suma, D. I. 9486
Suman Sahai 6643
Sumi, T. 8426-8427, 9597
Summerell, B. A. 2538
Summerfield, R. J. 512, 5835, 9342-9343, 10532, 11711, 11768, 11778, 11782, 12838, 12843-12844
Sumner, A. T. 5690
Sumner, I. G. 3178
Sumona Mukherjee 11652
Sun, B. J. 7260
Sun, B. L. 6968
Sun, C. 7255
Sun, C. H. 5987
Sun, C. R. 398, 1277-1278
Sun, C. Z. 4232
Sun, D. F. 2460
Sun, D. R. 6411
Sun, F. R. 10068
Sun, G. C. 445, 1609
Sun, G. L. 11316
Sun, G. Z. 8894, 10073
Sun, H. H. 2762
Sun, H. Y. 8749
Sun, J. S. 7740
Sun, J. Y. 6119, 10454, 11696
Sun, L. 5771, 12499
Sun, L. H. 2747
Sun, L. Z. 172
Sun, M. F. 11552
Sun, P. 3659
Sun, P. M. H. 12378
Sun, Q. N. 3819
Sun, S. 11052
Sun, S. J. 6120
Sun, S. S. M. 3257, 10952
Sun, S. W. 12122
Sun, S. Y. 445, 1609
Sun, T. 9748
Sun, T. L. 11954
Sun, T. S. 12857
Sun, W. 9318
Sun, X. L. 719, 1615
Sun, Y. 11520
Sun, Y. C. 2026
Sun, Y. J. 9238
Sun, Y. L. 504
Sun, Y. R. 1574
Sun, Y. S. 3701, 5940, 6050, 8986
Sun, Y. W. 6024, 9221
Sun, Y. Z. 3613
Sun, Z. C. 12678-12679
Sun, Z. Q. 1701
Sun, Z. X. 428, 6045, 9212
Sunabori, S. 1800
Sunarlim, N. 10882
Sundara, B. 881
Sundaram, K. S. 1721
Sundaram, M. K. 12169
Sundaram, S. K. 7259
Sundaram, T. 11550
Sundaramurthy, V. T. 2084
Sundberg, B. 10029
Sundberg, E. 3505, 5773, 8815, 11225
Sundby, C. 3213
Sunde, M. 11618
Sunderman, D. W. 174, 3588, 3630
Sundhari, S. S. 726
Suneel Sharma 4168
Sung, J. M. 6030
Sunich, L. 1257
Sunseri, F. 697, 9556
Suntio, T. M. 11199
Supe, V. S. 4068
Suphioglu, C. 1627
Suprasanna, P. 162, 9127, 12008
Suprihatno, B. 1514, 1547
Supriya Gandhi 11691
Suputtitada, S. 6985, 8027, 11886
Surana, P. P. 3788
Surányi, D. 741
Surendra Ram 5114
Suresh, J. 9132
Suresh, M. 7148, 8025
Suresh Chandra 9410
Sureshkumar, D. S. 1578
Surinder Singh 9677
Suriyachaiyakorn, M. 8514
Surjan Singh 1832, 7140
Šurlan-Momirović, G. 2508
Surles, S. E. 8635
Surma, M. 12433
Surmiak, J. 12905
Surprenant, J. 1644, 2813
Surti, G. 9012
Suryanarayana, Y. 8055
Susanto, S. 1914
Suseelendra Desai 9155
Susek, R. E. 11211
Sushil Sharma 12924
Sushila Kundu 2014
Šuška, M. 2908
Suslow, T. 3293, 8565
Suso, M. J. 531, 3927, 3955
Süss, R. 4376
Šuštar, J. 11115
Sutaria, P. M. 239
Sutaryo, B. 1514, 1547
Sütçü, A. E. 13157
Suthathirapadian, I. R. 11875
Sutherland, B. M. 6919
Sutherland, J. C. 6919
Sutka, J. 3643, 8885
Sutliff, T. D. 3671
Sutrop, U. 2613
Sutter, E. G. 150
Suttill, T. A. 11071
Sutton, B. C. S. 13309
Sutton, C. A. 1017, 11076, 12266
Sutton, F. 8951
Sutton, M. 8308
Sutton, P. 789, 8444
Suyama, Y. 12222
Süzer, S. 7341
Suzuki, A. 617, 9663
Suzuki, H. 12732
Suzuki, J. 6250
Suzuki, K. 543
Suzuki, M. 4410, 12092
Suzuki, S. 1104
Suzuki, T. 3594, 6294, 7397, 8675
Suzuki, Y. 9218, 10906
Svab, Z. 4296
Švantnerová, Z. 10581
Svendsen, I. 3677
Svensson, B. 5906, 8803
Svensson, G. 1319, 11340
Svetek, S. 1126
Svetsov, A. A. 2911
Svidchenko, A. I. 2225
Svircev, A. M. 5261
Svirshchevskaya, A. M. 7380
Svoboda, P. 4486, 5676
Svolba, J. 4382
Swain, A. J. 2575
Swain, P. 2750
Swain, S. M. 7111, 11758
Swaminathan, M. S. 1535, 6636, 11139
Swamy, M. T. 3250
Swamy, R. D. 4639
Swann, E. C. 7609
Swanson, D. R. 9284
Swanston, J. S. 1366, 12607, 12618
Swanton, C. J. 3080
Swartz, H. J. 4149
Sweaney, S. G. 2287
Swedlund, B. 9120
Swędrzyński, A. 12804
Sweeney, P. M. 9116, 9254
Sweet, G. B. 9814
Sweet, J. B. 3189, 8466-8467
Swennen, R. 4334, 6317, 7300, 8438, 8440, 8443, 9616
Swennen, R. L. 8437
Swensen, S. M. 2398
Świeżyński, K. M. 615, 6242, 7169, 11840
Swinburne, J. 3505, 8815
Swinburne, J. E. 5773
Swinhoe, R. 4680
Switzerland, Pro Bolivia Foundation 1225
Switzerland, Simón I. Patiño Foundation 1225
Switzerland, Swiss Societies for Experimental Biology 8752
Swofford, D. L. 12459
Swords, K. M. M. 4291
Syamasonta, M. B. 859
Syamsunder Joshi 10625
Sybenga, J. 4475, 7218
Sychev, S. I. 10057
Syed, H. M. 1852
Syers, J. K. 8479
Sykes, E. E. 12575
Sýkorová, S. 145
Sylvester, J. 4628
Sylvester-Bradley, R. 5889
Symons, R. H. 12000
Synková, H. 9464, 12148
Syōno, K. 9720, 10927, 12155
Sytsma, K. J. 2398, 3188, 3369, 13344-13345, 13363
Szabados, L. 8122
Szabo, L. J. 7861
Szabó, V. 3530, 7231, 7616
Szabó, Z. 11958
Szakács-Dobozi, M. 10723
Szalay, A. A. 915-916, 927
Szaro, T. 2404
Szász, A. 662
Szathmáry, E. 5795, 8805
Szczyglowski, K. 486, 8122, 12822
Szécsi, J. 7051, 12813
Szegedi, R. 11930
Székely, L. 5824
Szekeres, M. 13205
Szeląg, Z. 4407
Szelényi-Galántai, M. 517
Szell, M. 5858, 13205
Szewc-McFadden, A. K. 9938
Szigeti, Z. 11348
Szkukálek, A. 11878
Szlachetko, D. L. 4461-4462, 5654, 7530-7531, 8720-8722, 11093
Szlavnics, Z. 1271
Szmidt, A. 5581
Szmidt, A. E. 4377, 9819
Szöke, É. 4477
Szopa, J. 12440
Szot, B. 4724
Szucs, J. M. 6683
Szukalska-Gołąb, W. 8871
Szunics, L. 243, 243, 1257
't Hart, H. 8728, 9905
Ta Minh Son 6998
Taba, S. 8999
Tabaeizadeh, Z. 6262
Tabaka, C. 1862
Tabalenkova, G. N. 5095
Tabe, L. M. 8133, 11672
Tabei, Y. 10698, 13033, 13040
Taber, R. A. 3244
Tablante, J. 1757
Tabler, M. 9994
Tabosa, J. N. 11528
Tacconi, R. 7281
Tachikawa, M. 9669

Tada, M. 5134
Tada, S. 12399
Tada, Y. 393, 10273
Tadesse, D. 463, 7685
Tadokoro, F. 11604
Tae, K. H. 6575
Taeb, M. 3888, 11357
Taffin, G. de 6407
Tagliani, L. A. 3750
Tagu, D. 3710
Taguchi, T. 8701
Taguti, T. 9570
Tahara, M. 10920
Tahir, A. 10860
Tahir, M. 7784, 7791, 11767-11768
Tahiri-Alaoui, A. 9731
Tai, G. C. C. 8235, 10591, 11813, 12939
Tai, H. Y. 6254
Tai, P. Y. P. 877, 6440, 6449
Taira, H. 12720
Taira, S. 10820
Taira, T. 2654, 13085
Taiwan, Taiwan Agricultural Research Institute 3441
Tajammal Hussain 5389
Tajima, F. 6711, 8794, 11258
Tajima, K. 8746
Takabe, K. 5459
Takács, G. 5018
Takács, I. 1144, 3628
Takada, H. 202
Takada, S. 10906
Takahara, T. 793
Takahashi, A. 9244
Takahashi, B. 1918, 9605
Takahashi, C. 991, 13326
Takahashi, H. 11997, 13082
Takahashi, K. 119, 2874, 8737, 12978
Takahashi, M. 9536
Takahashi, S. Y. 9888
Takahashi, T. 8813
Takahashi, Y. 1147, 5447
Takahata, N. 8831, 10033
Takahata, Y. 3198, 4034, 9488, 12973
Takai, T. 13082
Takaiwa, F. 3942
Takaki, M. 8198
Takamura, M. 427
Takamure, I. 1551, 6977-6978
Takano, M. 3511, 4487, 5680, 7626, 10705, 11123
Takano, T. 391, 8956-8957, 9228
Takashima, S. 13217
Takasuga, A. 8004, 11554
Takata, K. 4688
Takayama, S. 9663
Takazaki, P. E. 718
Takebayashi, T. 13101
Takeda, G. 391, 8001, 8956-8957
Takeda, J. 10614
Takeda, K. 2625, 12623, 12628
Takeda, T. 3198, 3272
Takei, M. 1021
Takemori, N. 8237
Takemoto, T. 7536
Takeno, K. 10707, 11929
Takeuchi, H. 8224
Takeuchi, M. 1012
Takeuchi, Y. 3093, 4266
Takezaki, N. 11258
Takezawa, D. 4812
Takiguchi, T. 8004, 11554, 11563
Takishita, F. 9575
Takkar, P. N. 2417
Takumi, S. 1320, 7726
Takvorian, A. 3590
Tal, M. 3476
Talarico, A. 2361
Talavera, S. 13318
Talbert, L. E. 1317, 5875, 6744, 11297, 11370
Talbot, D. R. 8108
Talbot, M. 5848
Talekar, N. S. 2876, 10493
Taliaferro, C. M. 8083, 9264, 9859-9860
Talke-Messerer, C. 8491
Tallman, G. 8558
Talon, M. 69
Talukdar, B. S. 6002
Tam, G. 10014
Tam, Y. Y. 150
Tamada, Y. 9920
Tamaoki, M. 8198
Tămaş, E. 10438
Tamas, I. A. 927
Tamba, J. 9570
Tamber, K. S. 832
Tamietti, G. 706
Tammisola, J. 270
Tamò, M. 11775
Tamošiūnienė, R. 3034
Tamura, M. 811
Tamura, Y. 8006, 10353
Tan, A. 2037, 3267, 6456
Tan, A. Ş. 3220
Tan, B. 9848
Tan, C. S. 2897, 12880
Tan, J. Z. 399
Tan, K. H. 1423
Tan, S. Y. 5210
Tan, W. X. 7489
Tan, X. Z. 3316
Tan, Y. J. 2778, 10885-10886, 12087-12088
Tan, Y. P. 6319
Tan, Z. J. 1537
Tanaka, A. 10205
Tanaka, C. K. 8950
Tanaka, I. 12271
Tanaka, K. 1525, 1528, 5329, 8000, 8785, 9522, 9669, 9729, 9951, 10012, 10012, 10358
Tanaka, M. 9484, 9622
Tanaka, M. A. S. 3329, 9370
Tanaka, R. 8228, 11381, 12272
Tanaka, S. 119
Tanaka, Y. 400, 4437, 4440, 5148, 8663
Tanakamaru, N. 5284, 12001
Tanchev, D. 4858
Tandon, J. P. 2517
Tandon, P. 7529
Tandon, S. 248
Taneja, A. D. 5495
Tang, B. 6522
Tang, C. Q. 418
Tang, C. Y. 11505
Tang, D. T. 434
Tang, D. Y. 5798
Tang, G. Y. 12087
Tang, H. V. 10307
Tang, M. Z. 6740
Tang, Q. A. 9823
Tang, R. H. 3236
Tang, R. J. 3129
Tang, S. 395
Tang, S. Q. 1508, 3828
Tang, S. W. 2105
Tang, S. X. 3842
Tang, X. H. 8018
Tang, X. J. 13105
Tang, X. L. 6326, 9620
Tang, X. Y. 5648, 9220, 9334
Tang, Y. 6324
Tang, Z. C. 8401
Tang, Z. M. 9234
Tangbunitivong, W. 1770
Tanguy, X. 12037
Tanhuanpää, P. 12034
Tanhuanpää, P. K. 9661
Tani, A. 5578
Tani, T. 10205
Tanida, I. 10359, 11565
Taniguchi, K. 5152
Taniguchi, Y. 2482
Tanii, S. 7780
Tanimoto, E. Y. 6182
Tanimoto, T. 12965
Tank, N. K. 6006
Tanki, M. I. 4079
Tankimanova, M. K. 2562-2563
Tanksley, S. 1843
Tanksley, S. D. 401, 668, 2952, 3056, 3259, 3486, 3571-3572, 3809, 4075, 6661, 7211, 7216, 7732, 7762, 8032, 8282, 8335, 8795, 12519
Tanner, G. J. 3536, 3889, 4942
Tanner, J. W. 1694, 1696, 8143, 10459-10462
Tanner, O. 4134
Tanner, W. 12775
Tanno, H. 387
Tanno, S. 9570
Tano, S. 9338
Tanoue, H. 9198, 10355, 11567
Tanskanen, J. 12396
Tanzania, National Variety Release Committee 4648
Tanzarella, O. A. 7728
Tao, R. 811
Tao, Y. 1475
Taova, L. A. 11501
Tapati Das 5512
Tapia T., M. 1252
Tapia V., M. 2842
Tapiero, A. L. 2765, 2769
Tapp, E. 5961
Tarakanov, I. G. 5144
Tarakanov, P. 2790
Taramino, G. 3767, 9026, 9152
Tarar, J. L. 9341, 9439
Tararina, V. V. 6753
Taraškevičius, V. 2801
Tarchini, R. 3767, 9026, 9152
Tardieu, F. 7587
Tardif, F. J. 8082
Tariq, A. H. 7800
Tariq, M. 2087, 10860
Tarkowski, C. 4799, 8886
Tarmizi, A. H. 853
Tarn, T. R. 8235
Tarng, C. C. 11534
Tarpley, L. 9174
Tarsem Lal 5204, 7140
Tarutina, L. 2676
Tarvis, M. 185
Taryln, N. 6583
Taschetto, O. M. 1412
Tasei, J. N. 5001, 8167
Tashi Dawa 1306, 6222
Tashiro, T. 3834
Tasias, J. 8754
Tatang Ibrahim 4962
Tatham, A. S. 6820, 7711
Tatlioglu, T. 5143
Tatsuguchi, K. 647
Taunk, S. K. 4229
Tavares, M. J. C. M. S. 6862
Tavitas F., L. 2768
Tavladoraki, P. 5470
Tavoletti, S. 1144, 2827, 9283, 10423
Tawar, P. N. 882, 7375
Taware, S. P. 946, 7091-7092
Tawfik, M. S. 11860
Tay, D. C. S. 6416, 8774
Tay, J. U. 8124
Taya, S. 217
Taylor, B. 4013
Taylor, B. H. 2324, 4056, 7945, 8331, 9137, 9537
Taylor, C. 6871
Taylor, C. B. 4582, 5448
Taylor, C. G. 4314
Taylor, D. C. 7652, 12406
Taylor, D. W. 12138
Taylor, E. R. 8952
Taylor, G. A. 11371
Taylor, G. B. 12815
Taylor, G. E., Jr. 8638
Taylor, G. G. 13069
Taylor, G. J. 7789, 10122, 11349
Taylor, I. E. P. 7485
Taylor, J. D. 12900
Taylor, J. E. 5365-5366, 9613, 12997
Taylor, J. W. 7609
Taylor, L. P. 6583, 9882
Taylor, M. A. 603, 8652
Taylor, M. A. J. 3178
Taylor, N. L. 8113, 11670
Taylor, P. 1144, 1627, 11944
Taylor, P. A. 12818
Taylor, P. E. 1203, 11215
Taylor, P. L. 263, 8946
Taylor, P. W. J. 884, 3260, 6452-6453, 8523, 9699
Taylor, R. J. 1792, 13317
Tayyab, M. A. 6512
Tazaki, K. 7475
Tcacenco, F. A. 373, 6734
Tchetkova, S. A. 5056
Tchorbadjieva, M. 4914
Teakle, D. S. 2722, 8523
Teama, E. A. 10128
Tebbets, J. S. 8458
Tebbutt, S. 5834
Tebbutt, S. J. 922, 9721
Techawongstien, S. 1854
Teeri, T. H. 5905, 11199, 12396
Teetes, G. L. 10312
Tefera, H. 9272
Tehrani, G. 744
Tehrani, P. A. 12664
Tei, F. 5020, 10501
Teich, A. H. 178-179, 2540
Teichmann, T. 9717
Teissier du Cros, E. 4351, 8611
Teixeira, A. V. 13335-13336
Teixeira, J. B. 854, 6367
Teixeira, J. P. F. 4236
Teixeira, S. L. 7442
Tejada, G. 3960
Tejaswini 3382
Tekauz, A. 2539
Telang, S. W. 4331
Telaye, A. 6149
Telaye Asfaw 6149
Telek, L. 4975, 5007
Telenius, H. 7216
Teles, F. F. F. 7180, 10619
Téliz Ortiz, D. 2893, 9395
Téllez-Valdés, O. 4021, 4481
Tello, J. C. 8359
Tempelaar, M. J. 4638
Templeton, A. R. 4610
Ten Bookum, W. M. 6576
Ten Lohuis, M. 8700
Ten Lohuis, M. R. 4563
Tenbarge, F. L. 9138
Tendulkar, A. V. 4326
Teng, B. Q. 6461
Teng, J. L. 9224
Teng, L. W. 12943
Teng, P. S. 8045-8046
Tengkano, W. 2876
Tenhaken, R. 6114
Tenkouano, A. 6950
Tennant, D. 12892
Tenorio, J. 11844
Teo, C. K. H. 10815
Tepfer, D. 5443, 6563
Tepfer, M. 36, 10948, 13201, 13233
Tepora, N. M. 1591, 10370
Tepperman, J. M. 72, 13237
Ter-Kuile, N. 193
Terabun, M. 10636
Terachi, T. 7726, 8295, 12962
Terada, M. 8701
Terada, R. 1276
Terada, T. 8003
Terada, Y. 3870
Teramoto, H. 4113, 11381
Teramura, A. H. 9366
Terao, T. 9433
Teraoka, T. 3003
Terashima, K. 9213
Terauchi, R. 626
Ţerbea, M. 12557
Terekhov, A. Yu. 10469
Terenciano, A. 718, 11924
Terenciano, S. P. 11924
Terlizzi, B. di 3182
Termignoni, R. R. 4302
Ternouth, R. A. F. 3296
Ternovskaya, T. K. 254, 2548, 10096, 12572
Terpó, A. 5235
Terragna, C. 4833
Terrell, E. E. 1645
Terryn, N. 3526

Tersac, M. 6360, 8497
Terstappen, G. 6577
Terui, K. 8292
Terui, Y. 12720
Terzi, V. 2345, 10154
Tesemma, T. 6754, 6761, 11324
Tesi, R. 12243
Tesser, B. 2966
Tessereau, H. 5118
Testa, D. 399
Testillano, P. S. 1138, 8850
Testolin, R. 5301
Testoni, A. 10772
Teten Snider, K. 8251
Tetter, M. 4915
Teuber, L. R. 6077-6078, 8101
Teulières, C. 7441, 9780
Tewany, P. 5563
Tewari, D. N. 12314
Tewari, J. P. 8465, 9673
Tewari, K. K. 3966
Tewari, M. N. 1049
Tewari, R. N. 7209
Tewari, T. N. 11770
Teycheney, P. Y. 5404, 10947
Teyker, R. H. 8893
Tezuka, T. 9888
Thach Thi Ngoc Anh 1523
Thacker, D. 8909
Thakur, H. K. 9411
Thakur, H. L. 8481
Thakur, K. G. 7136
Thakur, P. C. 4085, 4091
Thakur, R. B. 3252, 9243
Thakur, R. P. 9189-9190
Thakur, S. R. 1502, 6001
Thaler, D. S. 12426
Thamburaj, S. 801, 2171, 3432, 7085, 7178, 10700
Thampi, A. P. 6385
Thamrin, M. 1618
Thangaraj, T. 801, 1916
Thangavelu, K. 8747
Thangavelu, S. 1973, 12089
Thangstad, O. P. 1933, 4583
Thapliyal, R. C. 9777
Thareja, R. K. 12924
Thavarasook, C. 3990
Thaware, B. L. 6863, 7142
The, D. 7793
The, T. T. 5894
Theander, O. 10202
Theerakulpisut, P. 1627
Theg, S. M. 12403
Theil, E. C. 6140
Theilade, B. 5926
Theilade, I. 6612
Theilade, J. 6612
Thengane, S. R. 4235
Theoduloz, C. 3002, 3005
Theologis, A. 444, 3503, 4062, 5045, 6286, 6672
Thera, A. 10310
There, D. N. 1713
Theres, K. 8333, 10655
Thermann, P. 12975
Theroux, L. J. 8648
Therrien, M. C. 2599
Thiagarajah, M. R. 9673, 12044
Thiaw, S. 12918
Thibault, J. F. 12613
Thibaut, B. 5340
Thiébaut, B. 9785-9786
Thiec, D. le 7488
Thieck, O. 11803
Thiel, P. G. 10680
Thiele, A. 2532
Thiele, K. 9801
Thierfelder, J. 5173
Thierfelder, J. M. 10674
Thill, D. C. 8060-8061
Thin, T. 6922
Thinggaard, K. 7519
Thiraporn, R. 5981, 11493
Thiruselvi, A. 12919
Thiyagarajan, K. 4887
Thole, V. 10953
Thom, M. 5412, 8511
Thoma, S. 10010
Thomas, A. M. 8110, 9294
Thomas, B. 1198
Thomas, B. J. 459, 8068
Thomas, B. R. 3391, 3805
Thomas, C. A. 1715
Thomas, C. M. 7210, 7231, 9704
Thomas, D. 8540
Thomas, D. J. 7196
Thomas, E. 13391
Thomas, F. 1156
Thomas, G. 9519, 11572
Thomas, G. J. 7799
Thomas, H. 112, 3879-3880, 4788, 6723, 10506, 12787
Thomas, H. M. 459, 8068, 12787
Thomas, J. 11572
Thomas, J. B. 175, 1303, 2453, 8915, 10076, 11302
Thomas, J. E. 3189, 8466-8467
Thomas, J. H. 8843
Thomas, M. 4580, 7711, 8807, 11201
Thomas, M. D. 10310
Thomas, M. R. 3158
Thomas, P. E. 9968, 10608
Thomas, S. 9896
Thomas, T. A. 1873, 1878, 8302
Thomas, T. H. 6457, 8527
Thomas, T. L. 2329, 3551, 4013, 10856
Thomas, W. T. B. 1370, 4765, 6823, 7860, 11396, 12607, 12629, 13410
Thomashow, M. F. 3502, 5785, 7659
Thomazelli, L. F. 9503
Thombare, M. V. 4258
Thomber, C. 9148
Thombre, M. V. 10977
Thomison, P. R. 1700, 1715
Thompson, A. 9988
Thompson, A. E. 12100
Thompson, A. J. 5900, 7805
Thompson, C. A. 349
Thompson, C. M. 3091
Thompson, C. R. 8060
Thompson, D. B. 10585
Thompson, D. R. 5065
Thompson, J. D. 5619
Thompson, J. E. 3454, 5182
Thompson, J. M. 745
Thompson, L. 9295
Thompson, M. M. 6306
Thompson, R. 3715, 5971, 7889, 8762-8763
Thompson, R. A. 9241
Thompson, R. D. 6918, 11814
Thompson, S. A. 1464
Thompson, S. K. 5708
Thompson, T. E. 5338, 9650, 10831
Thompson, W. F. 8188, 10013, 13210
Thompson, W. K. 4240
Thompson-Johns, A. 4009, 10587
Thomsett, E. C. 10409
Thomson, A. J. 7493
Thomson, E. F. 4764, 6836
Thomson, J. A. 56
Thomson, J. D. 4443-4444, 6714
Thomson, M. C. 10232
Thomson, N. J. 2415
Thomson, W. J. 12735
Thomzik, J. E. 3298
Thonpan, A. 11886
Thorbjørnsen, T. 6834
Thordal-Christensen, H. 5925, 11394
Thorlby, G. J. 3428
Thormann, C. E. 13124
Thörn, E. 11386
Thornber, J. P. 2601-2602, 8185
Thornburg, R. W. 2117
Thorpe, C. J. 2675
Thorpe, T. A. 8655-8656, 10045
Thorstenson, Y. 2319
Thote, S. G. 9170, 12086
Thothathri, K. 1682
Thottappilly, G. 626, 12773
Thraikill, D. J. 7821
Thresiamma, P. J. 1744
Thro, A. M. 8123
Thseng, F. S. 360, 9367
Thulaseedharan, A. 374
Thulin, M. 2126
Thümmler, F. 10201
Thung, M. 5016
Thurlow, D. L. 2669, 6726, 7024
Thurner, G. 9769
Thurston, C. F. 4503, 13401
Thyagarajan, A. 12713
Tian, H. C. 4304
Tian, H. Q. 189, 635
Tian, J. C. 10091
Tian, J. L. 806
Tian, L. N. 7086, 12809
Tian, M. H. 6215
Tian, W. Z. 12744
Tian, X. H. 2779
Tian, Y. 3316
Tian, Y. C. 5549
Tian, Y. N. 8321
Tickoo, J. L. 5074
Tie, F. 6494, 7391
Tiedemann, A. von 2529
Tieman, D. M. 10667
Tiemann, H. 2961, 5094
Tiemann, K. 6209
Tien, P 9966
Tieszen, L. L. 9285
Tiezzi, A. 11814
Tiffany, D. 9002
Tigerstedt, P. M. A. 4164
Tikader, A. 785
Tikhomirov, V. 7807
Tikhonovich, I. A. 5056, 8184
Tikka, S. B. S. 4329
Tikle, A. N. 6830, 7046
Tikoo, S. K. 679, 10676
Till-Bottraud, I. 2187, 8679
Tillberg, E. 5550, 5596
Tilney-Bassett, R. A. E. 4391
Tilquin, J. P. 1513, 1598, 1604
Timirgaziu, C. 9387
Timko, M. P. 2904
Timmer, R. T. 184, 11202, 11309
Timmerman, B. 4597
Timmerman, G. M. 8132, 11382, 12902
Timmins, P. R. 12873
Timmis, R. 5607, 9826
Timofeeva, L. 1190, 2679
Timopheyeva, L. 2679
Timor, C. 2226, 7548
Timothy, D. H. 5999
Timsina, J. 7990, 9432
Tindale, M. D. 4355, 8159
Ting, J. T. L. 13294
Ting, Y. C. 7939, 9123
Tingey, S. V. 2338, 5751, 6125
Tingey, W. M. 11843
Tinius, C. N. 3945
Tinker, N. A. 95-96, 12383
Tinland, B. 2321, 12136
Tio-Touré, B. 12959
Tiongco, E. R. 3861
Tiré, C. 3526, 4313, 12135
Tiret, L. 7582
Tischler, C. R. 4933, 9270, 10319
Tisma, M. J. 11967
Tisová, V. 4719
Titarenko, E. 5922
Titok, V. V. 7061
Titova, G. E. 1204
Tivang, J. 8304
Tivang, J. G. 13124
Tiwari, A. 5041
Tiwari, P. N. 237
Tiwari, R. J. 7419
Tiwari, S. 280
Tiwari, S. C. 11952
Tiwari, S. P. 514, 1709, 7081, 11705-11706, 12855
Tizroutine, S. 2954, 4174, 10626
Tjaden, G. 6174
Tjoelker, M. G. 2139, 13299
To, K. Y. 12122, 13230
Tobe, J. D. 7499
Tobes, N. 12631
Tobin, E. M. 5771
Tobolski, J. J. 4357
Tobutt, K. R. 992, 7265
Tocanne, J. F. 9780
Toda, O. 12751
Todd, D. 9465
Todd, J. J. 12842
Todd, J. W. 868
Todesco, G. 9097-9098, 11454
Todorov, I. 1258
Todzhaev, Sh. T. 10687
Toguri, T. 4077, 5647, 11897
Tohme, J. 3020, 8181
Tohver, M. 2463, 10098
Toi, N. 8746
Toit, F. du 10151
Tokhver, M. 10098
Toki, K. 11075
Toki, S. 7397, 12719
Tokugawa, K. 11897
Tokumasu, S. 7083
Toky, O. P. 9804
Toldi, O. 8528
Toledo, J. F. F. de 5385, 7076
Toledo, N. M. P. de 4236
Toledo, R. 8014
Toledo Gaytán, J. U. 768
Tolin, S. A. 526, 8164, 9375
Tollenaar, M. 10218, 12080-12081, 13159
Tollier, M. T. 12681, 13228
Tollsten, L. 12301
Tolmasky, D. S. 4834
Tolmay, V. L. 4807
Toma, C. 10724
Toma, O. 10724
Toma, Z. G. 2503
Toman, J. 4846
Toman, J., Jr. 7958
Tománek, A. 10781
Tomar, J. B. 3794, 6426
Tomar, S. K. 2091, 3325, 4328, 10971-10972, 10981
Tomar, S. R. S. 10971-10972
Tomaru, N. 7496, 13326
Tomás-Barberán, F. A. 2228, 13385
Tomás-Lorente, F. 2228
Tomasi, D. 9599
Tomášková, D. 3043
Tomé, D. 5052
Tomer, E. 4184
Tomes, D. T. 4861
Tomes, G. 2844
Tomita, M. 2465
Tomiuk, J. 1080
Tomizawa, K. I. 11095
Tomlik, A. 9905
Tomm, G. O. 4674
Tomooka, N. 3990
Tomsone, S. 3376
Tonai, N. 4926
Tondini, F. 2827
Tonelli, C. 3719, 8429
Tonelli, M. 1240
Tong, H. Y. 6035, 10384
Tong, Y. Z. 203
Tong, Z. 418, 3823
Tonkyn, J. C. 4039
Tonogai, J. R. 1586
Tonoike, H. 7079, 10039
Toomsan, B. 10882
Toorn, C. J. G. van der 13348
Toorn, C. van der 9121
Töpfer, R. 5373
Topp, B. L. 751, 4135, 11963
Toppan, A. 10865
Topping, J. F. 7633
Tör, M. 1169, 11228
Torisky, R. S. 4989
Toriyama, K. 5839, 6104, 6228, 6434, 9199, 11561, 12500-12502
Torné, J. M. 336, 7507, 7938
Tornero, P. 664, 8349
Toro, E. del 10140, 12495
Toro, M. 4543

Toro, O. 9384
Toroser, D. 6349
Torrance, C. J. W. 4001
Torre, C. de la 7191, 8300
Torre Almaraz, R. de la 9395
Torre Grossa, J. P. 5304
Torregrosa, L. 3162
Torregroza, C. M. 9111
Torrekens, S. 8299
Torrent, M. 5960, 7919, 12661
Torres, A. C. 653
Torres, A. M. 4248, 4409
Torres, E. 8123
Torres, H. 6240
Torres, J. 9880, 10761
Torres, J. H. 10466
Torres, M. A. 3710
Torres, W. 10675
Torres G., A. M. 4909
Torres-Jerez, I. 10228, 10259
Torres-Montalvo, H. 6921, 6927-6929
Torres-Vila, L. M. 5299
Torres Zabala, M. de 8238
Torroba Gentilini, H. E. 4669, 4673
Toruan-Mathius, N. 4966, 5566, 9315, 9806
Tosca, A. 4395
Toscano de Brito, A. L. 1030
Tosello, G. A. 4809
Toshima, I. 291
Tosun, M. 5878
Tosunoğlu, C. 9274
Touchell, D. H. 8771, 9848
Tourjee, K. R. 5638, 9862
Tourkmani, M. 6635
Tourmente, S. 11210
Tourn, M. 11935
Tournade, G. 10865
Tourvieille de Labrouhe, D. 848, 10866, 13145
Tous, J. 5394
Tous Martí, J. 12073
Tousch, D. 10948
Toutain, B. 2817
Touzé, A. 2310
Tovar, Ó. 1624
Towill, L. E. 137
Townley-Smith, T. F. 7723-7725
Townsend, A. M. 13339
Townsend, C. E. 1678, 4961, 9312
Toxopeus, H. 11855
Toyama, T. 8006, 10353
Toyao, T. 1104
Toyoda, H. 2629
Toyonaga, R. 11566
Toyoshima, Y. 10081
Tozu, T. 2649
Traas, J. 7607
Trabucco, A. 2452
Tracy, W. F. 3751, 5947, 5949, 9095, 9117, 9150, 10258, 12677
Trad, J. 13236
Trager, J. N. 7532
Traĭkova, D. 10670
Traineau, R. 1437
Trainotti, L. 9589
Tramontano, E. 9556
Tran Dinh Long 3800
Tran Minh Tuan 1515
Tran Thanh Van, K. 11118, 11131
Trang, V. B. 4174
Trank, W. A. 11793
Trapero-Casas, A. T. 6210
Trapero-Casas, J. L. 2932
Travis, A. J. 6346
Travis, J. W. 3116
Traykova, D. 10670
Treacy, M. F. 9754
Treaster, S. A. 1893
Treat, C. L. 9117, 12677
Trébuil, G. 12160
Trejo, C. L. 7587
Trela, A. 3874
Tremblay, C. 12226
Tremblay, G. 12554
Tremblay, M. F. 5591
Trémouillaux-Guiller, J. 988, 13384
Tremousaygue, D. 1156, 2730
Trenbath, B. R. 16
Trentmann, S. 3718, 5966
Trethowan, R. M. 3702, 8984, 8992, 12650
Tret'yakov, N. N. 1369, 4732, 6080
Treuren, R. van 8741, 12244, 13356
Trewavas, A. J. 1143
Trezzini, G. F. 11110
Tri-Panji 8539
Tribulato, E. 3177, 13107
Trick, H. 13218
Trick, M. 4030, 4210, 6344
Trigiano, R. N. 3872, 7517
Trillos, O. 8279
Trimnell, M. R. 7913, 7934, 9074
Trinca, S. 2994, 5470
Triolo, E. 6409
Tripathi, A. 1743, 1745
Tripathi, A. K. 6204
Tripathi, B. K. 892
Tripathi, H. S. 10539-10541
Tripathi, R. 10891
Tripathi, R. S. 3801
Tripathy, P. 3958, 10507
Triplett, E. W. 3959
Tripp, H. 12976
Tripp-Knowles, P. 9784
Trippi, V. S. 5983, 7950
Triratana, S. 4497
Trishkin, M. S. 1664
Trocheris, I. 4573
Troitsky, A. V. 1031
Trolinder, N. 8572
Trombetta, R. 6858
Troncone, R. 5457-5458
Trongpanich, K. 10279
Tronsmo, A. M. 1626, 7021-7022
Tropf, S. 5740
Troshin, L. P. 10791
Troshina, N. B. 11238
Trotsenko, A. G. 4857
Trotta, A. 8196
Trottet, J. 7733
Trottet, M. 6772
Trottier, M. C. 2502
Troussard, L. 8602
Trouvelot, A. 10812
Trovato, M. 5758
Troxler, J. 1376
Troxler, R. F. 7603
Truchanowicz, J. 4348, 7439
Truchet, G. 3918, 11666
Trudel, M. C. G. 2165
Trueman, S. J. 8461
Truesdale, M. R. 10668
Trujillo, E. E. 8693
Trukhan, N. V. 10770
Trull, M. C. 10936
Trumble, J. T. 649-650, 8354, 9527, 13021
Trunkle, P. A. 7868
Truong, A. T. 2174
Truong, H. N. 11186
Truong, V. 3013
Truong, V. D. 12950
Trusova, V. M. 10114
Tsai, C. J. 509
Tsai, F. Y. 5047
Tsai, J. N. 10300
Tsai, K. H. 11584
Tsai, S. M. 2894
Tsai, S. W. 5116
Tsai, W. H. 10300
Tsai, W. T. 9894, 12273-12274
Tsanev, V. 4698, 5871
Tsang, E. W. T. 4371
Tsao, S. J. 5116
Tsay, G. Y. 12199
Tsay, H. S. 7545, 12289
Tsay, Y. F. 5789
Tschaplinski, T. J. 3949, 13274
Tsegaye, S. 6761, 11324
Tseng, M. M. 5116
Tseng, S. T. 9237
Tseng, T. H. 12729
Tseng, T. S. 9233
Tsenov, N. 1258
Tsiantis, M. 6340, 10836
Tsinovskis, R. E. 5611
Tsou, C. H. 11035
Tsubaki, K. 9228
Tsuburaya, H. 9830
Tsuchimoto, S. 3416
Tsuchiya, T. 3867, 11314, 12526
Tsudzuki, J. 12208
Tsudzuki, T. 12208
Tsuge, T. 403, 3151, 6970
Tsugeki, R. 1860, 9562
Tsuji, H. 4113, 7660, 9563, 11381
Tsuji, K. 9481
Tsujimoto, H. 2464, 7752, 11311, 12496
Tsukamoto, C. 10486
Tsukano, M. M. K. 4829
Tsukanov, N. V. 11794
Tsukiboshi, T. 2691
Tsumura, Y. 991, 5583, 5609, 7496, 12222, 13326
Tsunewaki, K. 1286, 1320, 2461, 3663, 7726, 12500-12502
Tsurushima, H. 9868
Tsutsumi, N. 6018-6019
Tsutsumi, T. 8948
Tsvetkova, F. 846
Tu, E. X. 183
Tu, J. C. 2897-2898
Tu, Z. P. 6034, 10371
Tubb, H. J. 7712
Tuberosa, R. 6828, 9128
Tucci, M. 9382
Tucker, A. O. 13396
Tucker, G. A. 666, 9540, 13011
Tucker, M. L. 8155
Tudose, I. 10792
Tudzynski, P. 3694
Tueryapin, I. 2611
Tueryapina, R. 2635
Tufail, M. 8206
Tufenkian, D. 7532
Tugnoli, V. 13182
Tugwell, N. P. 9753
Tuhan, N. C. 5382
Tuijnenburg Muijs, G. 12323
Tuinen, A. van 70
Tukel, T. 9300
Tuleen, N. 2572, 8925
Tulmann Neto, A. 6158
Tulo, M. A. 3059
Tuman'yan, N. G. 389
Tümen, G. 9934-9935
Tumer, N. E. 4480
Tunen, A. J. van 1144, 2198, 3415, 5749, 12265
Tunen, A. van 5759
Tung, P. X. 2984, 8267
Tunoyama, Y. 10081
Tuomi, T. 12396
Tuong, T. P. 3861
Tupý, J. 2064, 2072, 12140
Turaev, A. M. 5505
Turc, A. 11796
Turc, O. 9320
Turci, P. 10772
Turcich, M. P. 3714, 11430, 12247
Turesson, G. 2406
Turet, M. 3593
Turfgrass Scientific Services Pty Limited 2804
Turgut, İ. 9112
Turgut, K. 5363, 6674
Turhan, G. 3092
Turk, S. C. H. 5756
Turkensteen, L. 8279
Turkensteen, L. J. 7167
Turnbull, C. G. N. 8461
Turner, D. S. 5122
Turner, H. 8623
Turner, J. 9667
Turner, J. G. 10030
Turner, K. E. 6069
Turner, L. 4932, 6173, 6183, 6193
Turner, M. E. 1175
Turner, N. C. 235, 3649, 4656, 12559
Turner, P. C. 2052
Turovskaya, N. I. 10716
Turpen, A. M. 5478
Turpen, T. H. 5478
Tusa, N. 7301
Tuskan, G. A. 13274
Tutois, S. 11210
Tuvesson, I. K. D. 224
Tuyl, J. M. van 1144, 8709
Tuzcu, Ö. 8460
Twary, S. 3910
Twell, D. 4593, 8330, 8547
Twibell, J. D. 11041
Twigg, P. 4361
Tyagi, A. 9837
Tyagi, A. K. 2347, 6020, 6255, 6967, 12737
Tyagi, B. R. 13387
Tyagi, B. S. 498, 562
Tyagi, M. C. 8206
Tyagi, P. D. 3040
Tyagi, R. K. 5377
Tyagi, R. N. S. 10561
Tyankova, N. D. 4686
Tyler, J. M. 3588
Tyson, H. 7423
Tyteca, D. 13380
Tyurin, Yu. S. 4955
Tyuterev, S. L. 13019
Tyvand, P. A. 4606
Tyynelä, J. 8954, 12396
Tzakou, O. 9877
Tzeng, S. S. 9233
Uchida, K. 991, 5583, 13326
Uchida, N. 10920
Uchimiya, H. 403, 617, 3807, 4884, 6970, 7397, 9199, 10612, 10932, 11561, 11604, 12134, 12380, 12719, 12723
Uchiyama, Y. 202
Uchneat, M. S. 11939
Uchytil, T. F. 12933
Udagawa, A. 5159
Udayakumar, M. 10876
Udaykumar, M. 6962, 10367
Uddin, M. N. 7746-7747
Uddin, W. 2568
Ueda, K. 5646, 8726, 12271
Uede, S. 1975
Uematsu, J. 1023
Uematsu, T. 2691
Ugaki, M. 6070, 8351-8352
Ugalde, T. D. 2480
Ugale, S. D. 10329
Uggenti, P. 530
Ugolik, D. 10732, 13051
Ugolik, M. 10732, 13051
Uhl, C. H. 9903
Uhlík, J. 4760, 4769
Uhlmann, A. 525
Uhrig, H. 6235, 11810
Ujihara, A. 3866
Ujihara, K. 216, 2482
UK, AFRC Institute of Grassland and Environmental Research 11126
UK, AFRC Institute of Plant Science Research, Cambridge Laboratory, John Innes Institute, Nitrogen Fixation Laboratory & Sainsbury Laboratory 7565
UK, Association of Applied Biologists 6625
UK, National Institute of Agricultural Botany 2414, 10222, 10392, 10631, 12928
UK, Processors & Growers Research Organization 6106
UK, University of Greenwich 6633
Ukai, Y. 1175, 6019, 7668, 8352, 8452
Uknes, S. 2075, 2266, 5464, 5742, 7661, 10031
Ukwungwu, M. N. 448

Ulaganathan, K. 5736
Ulian, E. C. 12264
Ullah, K. 4853
Ullman, D. E. 3077
Ulloa Ulloa, C. 11013
Ullrich, S. E. 3681, 4770, 12599, 12616
Ulmasov, T. 63, 10463, 11209
Ulmasov, T. N. 63, 506, 6128
Ulrich, J. F. 7971
Umaerus, M. 11839
Umaerus, V. 11839
Umapathy, P. N. 10368
Umbach, H. 3215
Umboh, I. 8756
Umeda, M. 403, 3807, 4884, 6970, 9199, 11561, 11604, 12726
Umeh, W. N. 8038
Umehara, Y. 6821, 9198, 10355, 11567, 12592
Umemoto, N. 4077
Umemura, Y. 1774
Umoh, E. O. 12916
Ünal, M. K. 7088
Underhill, E. W. 7652
Undersander, D. J. 5978-5979
Ungaro, M. R. G. 4236
Unger, C. 10613
Unger, O. 7810
Unnithan, V. K. G. 6397
Unseld, M. 62, 10001, 12405
Unsworth, M. H. 11164
Untila, I. P. 1259
Uozumi, N. 7559
Upadhaya, L. P. 7996
Upadhyay, A. P. 12843-12844
Upadhyay, J. P. 10541
Upadhyay, N. 5666
Upadhyay, P. C. 1996, 5106
Upadhyaya, H. D. 5403, 7358
Upadhyaya, K. C. 5772
Upchurch, R. P. 1668
Upelniek, V. P. 4712
Uppal, D. K. 4118, 4132
Uppal, S. 12576
Uppal, S. K. 4275
Uprety, D. C. 2497
Uragami, A. 8317, 9668, 12983
Uraivong, H. 6985
Urao, S. 3509
Urao, T. 3509
Uratsu, S. L. 816, 4120, 8458
Uray, Z. 106
Urban, C. 9717
Urban, L. A. 12248
Urbaniak, L. 984
Urbano, M. 7825
Urben Filho, G. 4983
Urechean, V. 6891
Uribe, F. 9448
Uribe, T. 12618
Uronu, A. B. 9407
Urrea, C. A. 2884
Urs, N. V. R. R. 9682
Urs, R. 10865
Ursin, V. M. 930
USA, American Society for Horticultural Science 12309
USA, American Society of Plant Physiologists 11129
USA, Commission on Plant Gene Nomenclature 11198
USA, Cooperative Forest Genetics Research Program 4512, 8751
USA, Iowa State University 1708
USA, North Carolina State University 4511
USA, Pacific Northwest Tree Improvement Research Cooperative 12307
USA, Plant Variety Protection Office 4545, 5718
Usman, K. M. 12089
Uspenskaya, M. S. 5630
Uthaiah, B. C. 6609, 8294
Uthamasamy, S. 5510
Utrilla, L. 8300
Utrup, L. J. 3939
Utsumi, S. 3942
Utsunomiya, N. 1226, 7876
Utz, H. F. 2449, 11735, 12649, 12652-12653
Uys, D. C. 4156
Uzbekova, S. V. 12156
Užík, M. 2444, 2479, 2838, 4525, 4948
Vaccino, P. 3636
Vacke, J. 11403
Vad, K. 2913
Vaddoria, M. A. 12083
Vadell, J. 2276, 5461, 9725
Vadhvani, H. K. 6429
Vagera, J. 12253
Vahab, M. A. 11940
Vahala, T. 5550
Vahedian, M. 6121
Vahidy, A. A. 193-194, 1350, 12497
Vahl, U. 2532
Vaidya, K. R. 5514
Vaidyanathan, P. 7148
Vail, P. V. 8458
Vaillancourt, R. E. 3981, 8204, 9428
Vainstein, A. 6586, 8673
Vairavan, S. 7992, 11550
Vaissière, B. 5304
Vaitkūnienė, V. 2591, 2612
Vajranabhaiah, S. N. 6040, 7350, 10385
Vakalounakis, D. J. 9564
Valcke, R. L. 914
Valcke, R. L. M. 12150
Valdés, B. 12460
Valdés, J. 8094
Valdes Reyna, J. 8094
Valdicelli, L. 2783, 8480
Valè, G. 2345
Vale, R. 12303
Valeeva, T. M. 4684
Valencia, M. C. 11739
Valencia, S. F. R. 5383
Valenta, M. 5294
Valenta, R. 310
Valente, C. A. 9778
Valenti, L. 3161
Valentine, J. 7867, 8974
Valentini, R. 5698
Valentinova, N. I. 7238
Valéro, M. 4630
Valim, M. F. C. F. A. 8291
Valkonen, J. P. T. 10601-10602, 13295
Valkoun, J. 7798
Vallania, R 778
Valle, R. del 13092
Valle, T. 4353
Valle Ribeiro, M. A. M. do 2788
Vallée, P. 12037
Vallejo C., F. A. 13420
Vallejos, C. E. 10679
Vallejos, E. 12826
Vallés, M. P. 4104, 12786
Valley Seeds Pty Ltd. 2792
Valobra-Piagnani, C. 13052
Valois, A. C. C. 11269
Valon, C. 67, 6743
Valor, J. F. 7104
Valovikova, G. D. 2041
Valpuesta, V. 5171, 9547
Valsala, P. A. 2231, 6389
Valsalakumari, P. K. 6320, 8439
Valtorta, N. 6563
Valuevīch, A. A. 6874
Valuevich, E. A. 6874
Vamling, K. 5369
Van Altvorst, A. C. 13359
Van Asch, M. A. J. 1435, 9713
Van Beckum, J. M. M. 5915
Van Beem, J. J. 6161
Van Berkel, J. 8260
Van Beusichem, M. L. 9145
Van Bilsen, D. G. J. L. 1216
Van Blokland, R. 5759
Van Bokhoven, H. 2938
Van Braeckel, E. 8612
Van Breusegem, F. 12757
Van Camp, W. 6495, 8782, 9951
Van Creij, M. G. M. 1144
Van Cutsem, P. J. 6260
Van Daele, G. 10728, 13047
Van Daelen, R. A. J. J. 682
Van Damme, E. J. M. 632, 8299, 8703
Van de Loo, F. J. 12093
Van de Rhee, M. D. 6504
Van de Ven, B. C. E. 1144
Van de Ven, W. T. G. 13071
Van Delden, W. 1180, 8741, 12244
Van den Ackerveken, G. F. J. M. 6276
Van den Berg, C. G. J. 8485
Van den Bosch, J. 1661, 7055
Van den Broek, H. W. J. 6276
Van den Bulk, R. W. 1144, 3420, 4073
Van den Elzen, P. 5115
Van den Elzen, P. J. M. 921, 8564, 13212
Van den Ende, J. C. 3046
Van den Ende, J. E. 10644, 10851
Van den Heuvel, J. F. J. M. 10603
Van der Beek, H. 8343
Van der Bruggen, P. 3024
Van der Burg, W. J. 75
Van der Eycken, W. 6281
Van der Geest, A. H. M. 13206
Van der Hoeven, C. 12139
Van der Kamp, B. J. 9770
Van der Klashorst, E. 6249
Van der Knaap, J. A. 8564
Van der Knaap, J. C. M. 3404
Van der Krol, A. 5759
Van der Krol, A. R. 3416-3417
Van der Kuip, H. 8991
Van der Lee, F. M. 3531
Van der Maas, H. M. 3804, 6065
Van der Maesen, L. J. G. 7681, 9953
Van der Mark, F. 2617, 3804
Van der Meer, A. 5723
Van der Meer, I. M. 2198, 8553, 10574
Van der Meijden, E. 3404, 4434
Van der Merwe, A. 12109
Van der Merwe, L. P. 1990-1991
Van der Merwe, P. J. A. 1990-1991
Van der Mescht, A. 2098, 5509, 9466
Van der Meulen, R. M. 268, 11384
Van der Meulen-Muisers, J. J. M. 5090
Van der Mey, G. A. 1665
Van der Mey, J. A. M. 1665
Van der Mheen, H. 12300
Van der Mijnsbrugge, K. 7436
Van der Salm, T. P. M. 13348
Van der Schoot, J. 4452
Van der Straeten, D. 661
Van der Toorn, C. 9121
Van der Toorn, C. J. G. 13348
Van der Veen, S. 3804
Van der Vlugt, R. A. A. 13401
Van der Walt, J. J. A. 2183, 7500
Van der Wardt, G. 11625
Van der Werff, F. 4058
Van der Werff, H. 8627
Van Deynze, A. 2337, 9666
Van Deynze, A. E. 1947
Van Dien, M. P. 1144
Van Dijk, G. E. 116
Van Dijk, H. 2032, 5433, 10907, 13189
Van Dijk, M. J. 3404
Van Dijken, F. R. 12260
Van Dillen, M. 6578
Van Doorn, W. G. 13362
Van Doorsselaere, J. 5538, 7436
Van Dorp, M. 5829
Van Dreven, F. 9251
Van Duijn, B. 268
Van Duren, M. 6318
Van Dyke, C. G. 10295
Van Eden, J. 7217-7218
Van Eeuwijk, F. A. 3010, 6463, 11866
Van Emmelo, J. 2066
Van Engelen, F. 1803
Van Engelen, F. A. 4013
Van Gardingen, P. 5727
Van Gelder, W. J. M. 3010
Van Gelder, W. M. J. 7778, 12546
Van Gelderen, D. M. 7575
Van Ginkel, M. 6770, 7783, 8918
Van Griensven, L. J. L. D. 4494, 13401
Van Haaren, M. J. J. 1127, 1404
Van Ham, R. C. H. J. 8728
Van Hasselt, P. R. 721-722
Van Hee, F. P. 259
Van Heerden, H. G. 3292
Van Helden, P. 11999
Van Herck, J. C. 5162
Van Herpen, M. 2061
Van Heusden, E. C. H. 11016
Van Hintum, T. J. L. 3535, 7318, 7832, 12587, 12589
Van Houten, W. 11567
Van Hove, C. 7562
Van Huystee, R. 6135
Van Impe, G. 7562
Van Ittersum, M. K. 9463
Van Kammen, A. 557, 1803, 2938, 3967, 4013
Van Kan, J. A. L. 6276, 6658
Van Kempen, G. J. M. 5010
Van Kesteren, H. A. 10681
Van Kesteren, W. J. P. 4638
Van Keulen, H. 8891
Van Lammeren, A. A. M. 8475
Van Leeuwen, P. 5010, 5013
Van Lent, J. W. M. 10916
Van Leuven, F. 632, 8299, 8703
Van Lieshout, O. 7227
Van Lijsebettens, M. 11222
Van Loo, E. N. 10394
Van Lookeren Campagne 6347
Van Loon, L. C. 146, 1077
Van Loon, P. C. C. 4494
Van Loven, K. 12150
Van Mil, R. 11182
Van Montagu, M. 661, 3513, 3526, 3528, 4313, 4597, 5538, 5788, 6209, 6281, 6479, 6495, 7436, 8541, 8782, 9951, 10006, 10017, 11222, 11237, 12130, 12135, 12152, 12757
Van Nes, M. 10654
Van Oijen, M. 1798
Van Onckelen, H. 910, 914, 13201
Van Onckelen, H. A. 12150
Van Ooijen, J. W. 5117, 12946
Van Oosterom, E. J. 5920
Van Oostveldt, P. 1159, 10006
Van Os, G. J. 10603
Van Os-Ruygrok, E. P. 3804
Van Oss, H. 9553
Van Rensburg, G. D. J. 350
Van Rensburg, J. B. J. 350, 3769
Van Rensburg, L. 934, 8560, 9728, 10938, 13231
Van Rheenen, H. A. 565, 1747, 2925
Van Roekel, J. S. C. 663
Van Roggen, P. M. 7120
Van Rooijen, G. J. H. 821, 8812
Van Rooyen, P. J. 1429
Van Roozendaal, G. 4899
Van Rossum, D. 7366
Van Ruissen, F. 682
Van Sanford, D. A. 5726, 5854
Van Schoonhoven, A. 8759
Van Scoyoc, S. W. 2690

Van Silfhout, C. H. 6789
Van Sint Jan, V. 1242
Van Slageren, M. 7827
Van Slageren, M. W. 7803
Van Sloten, D. H. 1876
Van Son, C. G. M. 6818
Van Spanje, M. 1778
Van Staden, J. 2204, 2694, 3396, 4448, 5530, 6898, 13180
Van Staveren, M. J. 3098
Van Steenbergen, H. 2815
Van Steveninck, R. F. M. 7286
Van Treuren, R. 8741, 12244, 13356
Van Tuinen, A. 70
Van Tunen, A. 5759
Van Tunen, A. J. 1144, 2198, 3415, 5749, 12265
Van Tuyl, J. M. 1144, 8709
Van Verseveld, H. W. 7366
Van Welzen, P. C. 8624
Van Went, J. L. 1210
Van Wijk, J. 4541
Van Wordragen, M. F. 12995
Van Wyk, A. E. 2206
Van Wyk, B. E. 1024
Van Wyk, G. 7574
Van Zijderveld, M. H. 2617
Van Zijl, J. J. B. 6249
Van Zuilen, C. M. 1064
Vancanneyt, G. 13001
Vancassel, M. 5794
Vance, C. 3910
Vance, C. P. 532, 1657, 3915, 7861, 11657
Vance, P. N. 2250
Vančetović, E. 10252
Vanchetovich, E. 10252
Vančo, B. 4953-4954, 12817
Vandam, J. 2252
Vandana 6147-6148
Vandekerckhove, J. 8802
Vandenberg, A. A. 766
Vandenbossche, D. 8808
Vandenbussche, B. 9531
Vander Wal, A. J. 10503
Vander Zaag, P. 2984, 8267
Vanderberghe, G. C. 13225
Vanderhaeghen, R. 11222
VanderKooi, A. 12254
Vanderleyden, J. 10718
Vandermark, G. 8313
Vanderpan, S. 7226
VanderWiel, P. L. 4320
Vanhaelen, M. 3224
Vanhaelen-Fastré, R. 3224
Vanniarajan, C. 577, 1564, 7127, 8213, 10365
Vannini, C. 2361
Vannozzi, G. P. 7352
Vanoost, N. 11845, 11870-11871
Vanparys, L. 11863, 11915
VanRaden, P. M. 4619-4620
Vansuyt, G. 13201
Van't Hoff, J. H. 38
VanToai, T. T. 11730
Vanyushin, B. F. 182
Varadarajan, P. V. 10976
Varade, P. B. 5371
Varagona, M. J. 4815
Várallyay, É. 8528
Vardi, A. 3177
Vardi, E. 10949
Varela, M. C. 10996
Varela Nieto, F. 5061
Varennes, A. de 1121
Vares, D. 6360
Varfolomeeva, L. A. 2076
Varga, S. I. 4699
Vargas, A. M. 8453
Vargas, C. F. 2215
Vargas-Hernandez, J. 11032, 13292
Vargas-Hernández, J. J. 5590
Vargas M., J. J. 748
Varghese, Y. A. 12177
Variar, M. 7998
Varis, E. 12552
Varley, H. 539
Varma, A. 11909
Varma, S. K. 7537
Varman, P. V. 1980, 12082
Varner, J. E. 4416
Varney, P. L. 8467
Varoquaux, P. 5263
Varshavskaya, V. T. 10305
Varshney, S. K. 8503
Vartanian, N. 7657
Varvaro, L. 4072
Vašák, J. 5372
Vasal, S. K. 1440, 5967
Vasara, T. 971
Vasconcelos Filho, S. D. 5071
Vasdinyei, R. 4850
Vashi, P. S. 1578
Vashistha, R. N. 680
Vasić, D. 7184
Vasil, I. K. 5899, 6745, 10238
Vasil, V. 5899, 6745, 10238
Vasilas, B. L. 10476, 11723
Vasil'eva, M. G. 4631
Vasileva, R. 7342
Vasil'eva, V. E. 1204
Vasileva, V. S. 5029
Vasilyeva, V. E. 1204
Vasiukov, P. 5904
Vas'kovskaya, N. G. 7297
Vásquez, R. 5573, 7461, 11012, 13289
Vasseur, C. 12554
Vasseur, J. 1826, 5161
Vassileva, R. 7342
Vassileva, V. S. 5029
Vasudeva, R. 3979
Vasudevan, K. 11857
Vatsala Iyer 10976
Vaucheret, H. 6476, 6487, 6491, 10926
Vaughan, D. A. 443, 446, 9240
Vaughan, H. E. 7524
Vaughn, D. L. 10431
Vaughn, J. 1831
Vaughn, K. C. 6515
Vaughton, G. 7501
Vaulx, R. D. de 5208
Vauterin, M. 12114, 12187
Vavilov, N. I. 2
Vavrina, C. S. 7197
Vawdrey, L. 8367
Vawdrey, L. L. 5185
Vawter, L. 4641
Vayda, M. 2325
Vayda, M. E. 11806
Vázquez, A. M. 10209
Vázquez Carrillo, M. G. 5006
Vázquez-G., J. A. 13342
Vázquez-Nin, G. H. 670
Vázquez-Ramos, J. M. 5968
Vazquez-Tello, A. 7078
Vear, F. 848, 10866, 12059, 13145, 13421
Veasey, E. A. 9191
Vecchia, P. T. della 718, 11921, 11924
Ved Parkash 234
Ved Pradesh 12829
Ved Prakash 5059, 11105
Vedel, F. 2065, 13126
Vedrina-Dragojević, I. 8160
Veen, S. van der 3804
Veena Chawla 12576
Veeranjaneyulu, K. 7299
Veerappa, K. B. 12921
Vega, A. de la 12296
Vega, S. 10571
Veiga, R. F. de A. 4253
Veilleux, R. E. 607, 8240, 8251
Veisz, O. 11348
Veit, B. 2681-2682, 5970
Veken, M. 13362
Velasco, R. 12621
Velásquez, L. 2966
Velázquez Cágal, M. 5386
Veldboom, L. R. 7936, 9037
Veldkamp, J. F. 2815, 7040, 8095, 9248
Velemínský, J. 10016
Velich, I. 12882
Velíšek, J. 6316
Velling, P. 6551
Vellinga, T. V. 10394
Vellvé, R. 18
Velozo, J. 4196
Velu, G. 6992
Ven, B. C. E. van de 1144
Ven, W. T. G. van de 13071
Venanzi, F. M. 7613
Venanzi, G. 6832
Vencovsky, R. 4809, 11546, 12175
Vendramim, J. D. 5154, 7200
Vendramin, G. G. 4365
Venegoni, A. 2361
Venette, J. R. 10503
Venezuela, Estación Experimental Táchira 905
Venkaiah, K. 5402
Venkatachalam, P. 7513
Venkataraman, L. V. 9929
Venkatesalu, V. 13194
Venkatesh, C. S. 9777
Venkatesh, J. 6610
Venkateshwaran, K. 8301
Venkateswarlu, B. 3241, 10883
Venkateswarlu, P. 13277
Venkateswarulu, V. 3250
Venora, G. 686-687, 6108
Venter, H. J. T. 11062
Ventura Coll, F. 1925
Ventura-Flores, C. 8052
Venturi, C. 2494
Venugopal, M. S. 7259, 12712
Vera, A. 8548
Vera, P. 664, 8349-8350, 13008
Vera-Estrella, R. 6275
Verbeek, W. H. J. 642
Verbič, J. 1691, 10427, 10427
Verbruggen, N. 3528
Vercammen, J. 10728
Vercoe, T. 9765
Verdcourt, B. 7469
Verdeil, J. L. 4241
Vereshchagin, P. V. 10785
Verevkin, A. N. 11664
Vergano, G. 8457
Vergara, B. S. 3845, 3848
Vergara V., G. 2842
Verger, M. 12182, 12200, 13321
Vergne, P. 1144
Vergunst, A. C. 4058
Verhaar, H. 7217
Verhaegen, D. 5559
Verhalen, L. M. 6524
Verhoeven, H. A. 3098
Verhoeven, M. 3630
Verhoeven, R. L. 11062
Verkamp, E. 7647
Verkerk, R. 1830, 12995
Verkleij, J. A. C. 6576, 6578
Verma, A. K. 3216, 10845
Verma, D. P. S. 2262, 2870, 6220
Verma, H. C. 4085
Verma, J. K. 10841
Verma, J. S. 1379
Verma, K. P. 4276, 8519
Verma, L. R. 7813
Verma, M. M. 567-568, 575-576, 1182, 1768, 2255-2256, 5080, 6206, 6211, 7100, 8209
Verma, O. P. S. 9188
Verma, P. S. 4274, 8510
Verma, R. C. 961
Verma, R. P. S. 1338
Verma, R. S. 5535
Verma, S. 9442
Verma, S. K. 7419
Verma, T. S. 4085
Verma, V. D. 12847
Vermeulen, A. 9532, 12989
Vermeulen, J. J. 4458-4459, 9901
Vermeulen, W. J. 1962-1963
Vernaillen, S. 11527
Vernet, P. 2031, 5433, 10907
Vernet, T. 10934
Verniere, C. 8448
Vernieri, P. 8496
Verno, L. L. de 13320
Verona, L. A. F. 7278
Veronesi, C. 6279
Veronesi, F. 1144, 2827, 11629, 11661
Veronneau, H. 1144
Verpoorte, R. 8732
Verron, P. 4447
Verseveld, H. W. van 7366
Verstegen, M. W. A. 5010
Verver, J. 2938
Vesmanova, O. Y. 2092
Vestman, G. 11677
Vetter, H. P. 2219, 5661
Veurink, H. 537
Veuskens, J. 2174
Veylder, L. de 10017
Vézina, L. P. 477, 8104, 10407
Via, S. 7296
Viana, A. M. 6545
Viands, D. R. 10431
Viau, L. V. M. 6864
Vicente, C. de 1843
Vicente, M. C. de 3056
Vicente, O. 1144, 2055, 2072, 8850
Vicente-Carbajosa, J. 274
Vick, C. L. 12077
Victoria, J. 2002
Victoria, J. I. 2012, 2022
Vida, G. 4723
Vidaković, M. 10252
Vidakovich, M. 10252
Vidal, B. C. 5142
Vidal, J. 11183
Vidal Lezama, E. 5243
Vidavsky, S. 681
Vidhyasekaran, P. 5730-5731, 5734, 5737, 6632
Vidić, M. 503, 9372
Vidyachandra, B. 1534, 7999
Vidyasagar 7194
Vidyasagar, P. 4872, 10315
Vieira, L. G. E. 13193
Vieira, M. L. C. 4197, 7313
Vieira, R. F. 2891, 7147, 12284
Viémont, J. D. 12231
Vienne, D. de 1405, 7879, 8199
Viera, C. 12461
Viera, F. V. 11510
Vierling, R. A. 6917
Vierstra, R. D. 3489, 7615, 11398
Vieth, J. 2203
Vietor, D. M. 9174
Viewegh, J. 5580
Vigino, B. 10339
Vignale Lopepe, B. M. 3175-3176
Vigneron, P. 5528
Vignevini 3159
Vij, S. P. 8713
Vijayakumar, S. 3249
Vijayaraghavan, H. 5393
Vijaykumar, S. 5403
Vikal, Y. 7149
Vil, M. de 10718
Vilaine, F. 13201
Vilardell, J. 5960, 7637
Vilchez Alvarado, B. 9797
Viljoen, C. D. 13261
Vilkki, H. J. 9661
Vilkki, J. 12034, 12034
Vilkki, J. P. 9661
Villa, M. 352, 1470, 12687
Villacorta, A. M. 5027
Villalba, M. 8490
Villalobos, F. J. 10855, 10863
Villalobos, V. M. 9617
Villalta, O. 2795
Villand, P. 4590, 6834
Villanueva, B. 4616
Villar, M. 5539, 7437, 8602
Villareal, C. P. 1587
Villareal, R. L. 10140, 12462, 12495
Villarroel, D. 940, 2851
Villarroel, R. 3526, 3528, 11222
Villaseñor, J. L. 4481, 12023
Villata, C. A. 6954
Villegas, E. 1440
Villegas, T. 475
Villegas D'Gante, A. 516

Villegas-Sepulveda, N. 11616
Villela, O. V. 7948, 9142
Villemson, S. V. 8695
Villemur, R. 316, 5954
Villiers, O. T. de 7757, 9255
Vincent, D. J. 1380
Vincent, J. E. 105
Vincent, J. R. 4840
Vincent, K. A. 11102
Vincent, T. L. 8856
Vincentz, M. 6487, 6491, 10926
Vincieri, F. F. 5288
Vincourt, P. 6360, 8497
Vingere, A. 6195
Vinke, J. H. 3010, 5117, 7170, 12946
Vinnikova, N. V. 7414
Viola, R. 6236, 8248
Viotti, A. 9131, 9140, 12656
Vipin Kumar 11706, 11726
Viraktamath, B. C. 1532
Virendra Singh 5015
Viret, J. F. 4817
Virk, D. S. 375, 576, 1494, 1501, 1507, 2255-2256, 7984, 12702
Virk, K. S. 8518
Virmani, S. S. 2373, 3799, 8014-8015, 11576
Virovets, V. 13251
Virščk, M. 10731
Virščk-Marn, M. 10730
Virupaksha, T. K. 1772
Virupakshappa, K. 9681, 13171
Visentin, M. 8480
Visessuwan, R. 8514
Vishnevskiĭ, N. V. 11495
Vishwa Dhar 10541
Vishwanatha, K. P. 8215
Visperas, R. M. 3848
Viss, P. 4120
Visser, A. F. 5103
Visser, B. 5463, 6653
Visser, D. L. 10643
Visser, J. 13401
Visser, N. C. 8087-8088
Visser, R. G. F. 2969, 4017, 6233, 10574-10575, 11804, 11848
Viswanath, D. P. 6996
Viswanath, S. 6226
Viswanathan, P. 7121
Vitagliano, C. 4356, 5395, 6409
Vitale, A. 2885
Vitart, V. 2065
Viterbo, A. 12969
Vithanage, V. 487
Vitkare, D. G. 5887
Vitkauskaitė, D. 3143
Vito, M. di 695, 711, 6116, 8141, 11985
Vitolo, D. B. 3890
Vivar, H. 8968
Vivekananda, J. 10856
Vivekanandan, P. 2940, 6979, 7127, 7992, 11591-11592
Viveros, C. 2002
Viveros V., C. A. 12105
Vivian, A. 6196, 12900
Vizgarra, O. N. 1723
Vlăduţu, C. 10441
Vlahov, G. 7356, 9685
Vlasák, J. 57
Vlasák, M. 10117
Vlasenko, V. A. 1256
Vlasov, P. V. 1164
Vlasova, T. A. 4339
V"lchev, V. 10784
V"lcheva, D. 10185
V"lkova, Z. 5189
Vloemans, S. A. 5743
Vlugt, R. A. A. van der 13401
Vnuchkova, V. A. 223, 11335
Vodkin, L. O. 6131, 11702, 12842
Voelker, R. 7931
Voelker, T. A. 12393
Voeste, D. 1970
Vogdani, P. 10749
Vogel, J. M. 3721
Vogel, K. P. 11621
Vögeli-Lange, R. 5456, 9730
Vogelsang, R. 5063, 6114
Vogler, J. N. 10816
Vogt, E. A. 3095
Vogt, T. 6583, 9882
Voigt, P. W. 4933, 9270
Voigt, R. L. 6920, 6925
Voĭlokov, A. V. 5937-5938
Voinescu, G. 7355
Voisey, C. 8115
Voisey, C. R. 8107
Voisin, R. 10715
Vojdani, P. 5062, 5387, 7718, 12906
Vokou, D. 2236-2237, 5673
Volckaert, G. 6317
Voldeng, H. 7086
Voleti, S. R. 6401, 12072
Volgin, V. V. 7377
Volkov, R. A. 11961
Volkova, T. I. 6308, 11995
Vollbrecht, E. 5970, 7899
Vollmann, J. 8508
Volpe, N. 7691
Volrath, S. 12399
Voltas, J. 12608
Vömel, A. 9917
Von Aderkas, P. 2148, 5603, 8650
Von Arnim, A. G. 10000, 10021
Von Arnold, S. 2051, 2121, 5595, 7487, 8640, 9816, 11028
Von Baer, D. 2251
Von Bothmer, R. 3886, 7841, 10181, 12800
Von Caemmerer, S. 931, 13229
Von Euler, F. 6546
Von Haeseler, A. 1224, 8858
Von Kittlitz, E. 11735, 12869
Von Müller, T. 7474
Von Ossowski, I. 8857
Von Schaewen, A. 79, 6232, 7158
Von Schwartzenberg, K. 12186
Von Tiedemann, A. 2529
Von Wettstein, D. 2608, 3673
Von Wettstein-Knowles, P. 2580
Vonarx, M. M. 7328
Vooková, B. 13319
Voordeckers, A. 738, 3120
Voorrips, R. E. 4225, 10643, 12029
Vornam, B. 8587
Vorob'ev, A. S. 5668
Voronin, V. V. 1788, 5100
Voronina, E. P. 11111
Voroshilov, V. N. 5645
Vorsa, N. 3144, 11992, 13076, 13078
Vorst, O. 3520
Vos, J. 10818
Voškeruša, J. 7329
Vosman, B. 12998
Voss, B. K. 9365
Voss, J. 9385
Voss, R. 2068
Vossen, P. M. J. 6276
Votava, V. 4915
Votisky-Varga, E. 517
Vovchuk, S. V. 10115
Voyiatzis, D. G. 10828
Voylokov, A. V. 5937-5938
Voysest, O. 11739
Voytas, D. F. 4320, 11216
Vrabec, J. 7334
Vrain, T. 12392
Vrânceanu, A. V. 7355
Vraneš, S. 503
Vredebregt, I. J. H. 1887
Vreugdenhil, D. 1077, 6178, 8193, 10575, 11760
Vries, B. J. de 11804
Vries, D. P. de 13348
Vries, J. de 1817
Vries, S. C. de 1801, 1803, 4013
Vries, S. de 10010
Vries van Hulten, H. J. P. de 3420
Vu Minh Hung 1536, 3799
Vu Thi Chai 2776
Vuayakumar, S. 7358
Vujičić, R. 6054
Vulcheva, D. 10185
Vulkova, Z. 5189
Vulkova, Z. V. 5183
Vulsteke, G. 11845, 11870-11871
Vuylsteke, D. 7300, 8435, 8438, 8443, 9614
Vuylsteke, D. R. 787
Vyas, S. H. 727
Vylchev, V. 10784
Vyshkova, A. P. 1063
Vyvadilová, M. 3043, 5348
W. Kordes Söhne, Rosenschulen GmbH & Co. 3379
Wach, M. 6618
Wach, M. P. 13400
Wachira, F. N. 5438, 13195
Wächter, V. 2532
Wachtler, F. 4628
Wada, K. 1811
Wada, M. 7173, 11095
Wada, S. 8224
Wada, T. 9244, 10081
Wadan, D. 6155, 12885
Waddell, P. 5824
Waddle, B. A. 9753
Wade, L. J. 1482, 4869, 7977, 7979
Wadibhasme, S. S. 8580
Wadisirisuk, P. 6225
Wadsworth, F. H. 7433
Wadsworth, R. M. 6472
Waga, J. 288
Wager, G. M. 4035
Wagh, A. N. 10814
Waghmare, V. N. 2549
Wagner, A. 7655
Wagner, B. 11683
Wagner, D. B. 6692, 8592, 9813, 13307
Wagner, D. G. 1484, 4864
Wagner, E. D. 10016
Wagner, G. 8552
Wagner, G. E. 11485
Wagner, M. L. 1676
Wagner, M. R. 5592
Wagner Riddle, C. S. 5027
Wahab, M. A. 7243
Waheeb, B. 2418
Waheed, A. 9412
Wahi, S. D. 989
Waines, J. G. 7758-7759, 12537
Wainwright, H. 8442, 9615, 10801
Wainwright, I. M. 7370
Wainwright, S. J. 12814
Waitz, A. 9912-9913
Wajda, L. 1010
Wajid, A. 12743
Wakamiya, I. 6547
Wakasugi, T. 10933, 12128, 12208
Wakaura, M. 9522
Wakhlu, A. K. 10537
Wakjira, A. 857
Waksman, G. 9407
Wakui, K. 12973
Wal, A. J. vander 10503
Walbot, V. 392, 1526, 2383, 2732, 3457, 6886, 9007, 9069, 9148, 10236, 11441, 11461, 12669
Walden, D. B. 3743, 9019-9024, 9044
Walden, R. 4572, 5709
Waldia, R. S. 7124
Waldmüller, T. 2872
Waldron, C. 3995
Walduck, G. D. 2805
Walia, D. P. 1306, 2459
Walia, U. S. 3666
Waliyar, F. 3248
Walker, A. K. 1714
Walker, D. R. 8563
Walker, E. L. 5047
Walker, I. O. 8367
Walker, J. C. 5985, 12408
Walker, K. 5608
Walker, K. A. 12368
Walker, K. C. 6346
Walker, M. 7931, 11455
Walker, M. A. 678, 8430
Walker, R. W. 2805
Walker, T. S. 4650
Walker-Simmons, M. K. 7031, 12310, 12520, 12805
Walko, R. 5970
Wallace, A. 7215
Wallace, A. R. 9469, 12337
Wallace, B. 4600
Wallace, J. F. 4656
Wallace, P. A. 7328
Wallace, T. P. 9987
Wallace-Cook, A. D. M. 2904
Walles, B. 2133
Walling, L. L. 8708, 9549, 10467
Wallmeier, H. 4816
Wallsgrove, R. M. 3670, 6352
Wallwork, M. A. 9801
Walmsley, M. L. 9754
Walón, L. 13158
Walsh, C. 4428
Walsh, E. J. 10131
Walsh, J. A. 5167, 5378, 8316
Walsh, J. B. 6659
Walsh, T. A. 3995
Walt, J. J. A. van der 2183, 7500
Walter, B. 5295
Walters, S. A. 3101, 10710
Walters, S. M. 7683
Walters, T. W. 5203
Walther, F. 5633, 5636
Walther, H. 6786, 12564
Walther, U. 2640
Walton, J. D. 1467
Walton, M. 5752
Walton, P. D. 2812
Walton, R. 7834
Walton, R. B. 178
Walulu, R. S. 11530
Wan, C. Y. 7408
Wan, H. Q. 6051
Wan, J. M. 12733
Wan, L. Z. 5318
Wan, X. S. 925
Wan, Y. C. 5908, 11467
Wan, Z. Z. 10821
Wan Mohamad, W. O. 13409
Wan Zaki, W. M. 12153
Wandelt, C. 6107
Wang, A. L. 6049
Wang, B. 399, 719
Wang, B. J. 10169
Wang, B. R. 1702
Wang, B. S. 8629
Wang, B. S. P. 8765
Wang, B. X. 2739
Wang, C. 11224
Wang, C. L. 3850, 10361
Wang, C. S. 8708, 12842
Wang, C. Y. 3701, 5940, 8986, 10964
Wang, D. C. 5987, 6816, 11984
Wang, D. T. 167
Wang, D. W. 10527
Wang, F. 2737, 8324, 8332
Wang, F. D. 925, 2244
Wang, F. G. 5313
Wang, F. J. 685
Wang, F. M. 1895
Wang, F. X. 10813
Wang, G. 233, 3055, 5941, 8604, 11562, 12443
Wang, G. J. 10961
Wang, G. L. 7002, 11197, 12768
Wang, G. M. 9738, 9749, 10965
Wang, G. R. 5629, 7264
Wang, G. X. 10364
Wang, H. 1139, 2486, 2499, 4300, 4425, 5648, 7627, 9922, 13141
Wang, H. C. 5683-5684, 6083
Wang, H. G. 170, 191, 5861

Wang, H. H. 4509
Wang, H. L. 12986
Wang, H. M. 4035, 6602, 9518, 9749
Wang, H. Q. 325
Wang, H. S. 645, 13350
Wang, J. 1344, 7629, 11379, 12397
Wang, J. B. 10363
Wang, J. E. 6303
Wang, J. F. 716, 5184, 10679
Wang, J. L. 220, 450, 1707, 3815, 7740, 9205, 10473, 11724, 11731, 12835, 12841
Wang, J. M. 4888
Wang, J. S. 11494
Wang, J. X. 6298
Wang, J. Y. 4892, 12958
Wang, J. Z. 11973
Wang, K. B. 939
Wang, K. F. 1290
Wang, K. M. 1921
Wang, K. S. 5987
Wang, L. 648, 3274
Wang, L. F. 6984
Wang, L. K. 12542
Wang, L. M. 7947
Wang, L. Q. 11313
Wang, L. S. 11499
Wang, L. Z. 9354
Wang, M. 268, 5915, 11384
Wang, M. B. 5213
Wang, M. J. 533
Wang, M. L. 13128
Wang, M. S. 716
Wang, P. 11333
Wang, P. T. 3319
Wang, P. W. 997, 9332
Wang, P. Y. 9354
Wang, P. Z. 2942
Wang, Q. 2847, 5317
Wang, Q. C. 10136
Wang, Q. M. 1608
Wang, Q. R. 2193
Wang, Q. S. 11973
Wang, Q. Y. 199, 4232
Wang, R. C. 11521
Wang, R. F. 11708
Wang, R. G. 12943
Wang, R. R. C. 2802, 3580, 8077
Wang, S. 1363, 2584, 2600, 2606, 3867
Wang, S. C. 925
Wang, S. J. 4735, 6543
Wang, S. L. 766
Wang, S. M. 5303
Wang, S. R. 2942, 12710
Wang, S. Y. 335, 10093
Wang, T. 418, 3823, 6190
Wang, T. C. 6274
Wang, T. H. 9695
Wang, T. L. 556, 5046, 6179, 7109
Wang, T. S. 6602
Wang, T. Y. 6721, 13056
Wang, T. Z. 2080
Wang, W. 9742
Wang, W. H. 406
Wang, W. M. 12485
Wang, W. Y. 720, 720, 12196
Wang, X. 6460
Wang, X. A. 7740
Wang, X. C. 4735
Wang, X. F. 4318, 10136
Wang, X. G. 13034
Wang, X. H. 5916, 12597
Wang, X. L. 11048
Wang, X. M. 395, 6460, 10363
Wang, X. P. 5549, 12345
Wang, X. Q. 4885, 6164
Wang, X. R. 7054, 9819
Wang, X. W. 5850
Wang, X. X. 10360
Wang, X. Z. 2615, 3673
Wang, Y. B. 1389, 5941, 10224
Wang, Y. C. 12167
Wang, Y. F. 2747, 11727, 12168
Wang, Y. J. 1454, 2103, 10984
Wang, Y. L. 4232, 5156
Wang, Y. M. 3946, 6991, 7087, 11721
Wang, Y. N. 242, 9832
Wang, Y. P. 3792, 5237, 5667, 6774, 10337, 11577
Wang, Y. R. 441
Wang, Y. S. 807, 3274
Wang, Y. X. 406, 7774
Wang, Y. Z. 399
Wang, Z. 409, 8795
Wang, Z. D. 242
Wang, Z. F. 2457
Wang, Z. J. 11581, 11912
Wang, Z. L. 2158
Wang, Z. M. 2734, 7982
Wang, Z. N. 226
Wang, Z. Q. 44
Wang, Z. S. 5683-5684
Wang, Z. T. 716
Wang, Z. X. 1281, 7391, 8006, 9520, 10353
Wang, Z. Y. 2243, 3321, 4885, 4920, 8073, 10954, 12774, 12786
Wang, Z. Z. 938, 2097, 12158
Wani, S. A. 1953, 3987, 10844
Wani, S. P. 10330
Waninge, J. 537
Waniorek, W. 11675
Wanjala, B. W. 1053
Wanjari, K. B. 4078, 7151
Wanjari, S. S. 3599, 9170
Wankhade, R. V. 4066, 4080, 10672
Wannamaker, M. J. 8252
Wanner, G. 1191, 5907, 7201
Wanyancha, J. M. 12193
Warchalewski, J. R. 11368
Ward, C. 6554
Ward, E. 936, 1764, 2075, 2266, 3289, 5464, 5742, 7661, 12399
Ward, R. D. 8829
Ward, R. G. 1976
Ward, S. M. 7014
Wardt, G. van der 11625
Ware, C. F. 8708
Warid, W. A. 5145, 11918
Warkentin, D. L. 10898
Warmbrodt, R. 12385-12386, 13257
Warner, A. 6124
Warner, D. A. 3542
Warner, R. L. 12469
Warner, S. A. J. 10653
Warnick, D. A. 5989
Warnot, F. 1826
Warnow, T. J. 5821
Warren, H. L. 4845
Warren, J. M. 8538, 9715
Warrington, I. J. 7025, 9621
Wartenburg, D. E. 1175
Warumby, J. F. 5071
Warwick, S. I. 2042, 9670, 10401, 10917
Waś, M. 7169
Wasano, K. 12750, 12764
Wasee, S. 12856
Waser, N. M. 4637, 11247
Washburn, T. 7644
Wasilewko, J. 4959, 5011
Wassenegger, M. 9723
Wassom, C. E. 344, 3760
Wastie, R. L. 613, 8261, 8272, 8275-8276, 10593
Watada, K. 10738
Watanabe, A. 11754
Watanabe, I. 9433
Watanabe, K. 291, 8065, 9605
Watanabe, K. N. 2963, 10571, 11801
Watanabe, M. 3003, 9663, 12021
Watanabe, N. 2431, 4702, 5873, 6038, 7751, 7766
Watanabe, S. 6497, 8810, 10820
Watanabe, T. 1974, 13152
Watanabe, Y. 415, 9333
Watanesk, O. 8022
Waterhouse, D. B. 8097
Waterhouse, R. N. 9333
Waters, C. T. 8322
Waterworth, H. 2291
Wathelet, B. 5087, 8178
Watillon, B. 1890
Watkins, P. A. C. 5799
Watson, C. E., Jr. 4322, 8574
Watson, E. E. 5823
Watson, J. C. 10517
Watson, M. D. 4213, 4570, 5709
Watson, S. 6855
Watson-Pauley, B. A. 980, 5620
Watt, M. P. 9773, 12104, 13263
Watt, W. B. 11230
Wattanasiri, C. 2812
Watterson, G. A. 5797
Watterson, J. J. 358
Wattier, R. 10907
Watts, B. M. 9388
Watts, J. W. 918
Waugh, R. 269, 1370, 2052, 4765, 6823, 8255, 8533, 9454, 12607
Wauthy, J. M. 10066
Wavhal, K. N. 10814
Waycott, W. 12980, 12982
Wazir, A. K. 1920
Weaich, K. 6447
Weathersbee, A. A., III 9756-9757
Weatherwax, S. C. 5771
Weaver, D. B. 6141, 7077, 11710
Weaver, L. M. 5780
Weaver, S. H. 6858
Webb, A. 12276
Webb, B. D. 1516, 10343
Webb, D. M. 6121
Webb, J. 7086, 12809
Webb, K. J. 11671
Webb, M. 12276
Webb, M. A. 9334
Webb, M. C. 11214
Webb, M. J. 1322
Webb, R. E. 1797
Webb, R. P. 6192
Webber, C. L., III 7427, 12171, 13249
Weber, A. 9524
Weber, B. 10242
Weber, D. F. 11450, 11489
Weber, E. 8430
Weber, G. 12772
Weber, H. 2879, 7632
Weber, J. C. 7495
Weber, J. L. 8795
Weber, T. 3750
Weber, U. 2671
Weber, W. E. 12333
Weber do Canto, M. 10485
Webster, A. D. 4120
Webster, B. D. 8226-8227
Webster, C. M. 9491-9492
Webster, D. E. 6953
Webster, F. B. 7485
Webster, J. A. 2443, 3665, 6856, 8943-8944
Webster, K. D. 4312, 12944
Webster, O. J. 6920, 6925
Weck, E. 9004
Wedderburn, M. E. 7019
Wedderburn, R. 1395
Wedel, N. 6255
Weder, J. K. P. 4975
Weeden, N. F. 2181, 3981, 8132, 9428, 12902
Weeks, C. 8407
Weeks, J. T. 265
Weerakoon, L. K. 11489
Weerathaworn, P. 9144, 12160
Wegener, D. 3496
Wegrich, L. M. 3995
Węgrzyn, S. 8982, 10116
Wehling, P. 7872, 8981, 11409-11410
Wehmeyer, B. 5760, 5868
Wehner, T. C. 3101, 9565, 10710, 11928, 11938-11939
Wei, G. 10985
Wei, J. C. 5314
Wei, J. Z. 4756
Wei, L. C. 9301, 12638
Wei, L. G. 791
Wei, N. 10021
Wei, R. P. 13298
Wei, R. X. 246
Wei, S. Q. 717
Wei, W. D. 8395
Wei, X. M. 10985
Wei, Y. J. 5667
Wei, Y. Q. 2454, 10077
Wei, Y. T. 8305
Wei, Z. M. 356, 499, 7199
Wei, Z. X. 4392, 11010
Weibel, R. 11017
Weibull, J. 1335, 4782
Weide, R. 12995
Weidner, A. 7810
Weigand, F. 7606, 8207
Weigand, S. 6117, 8142
Weigel, D. 1163
Weihe, A. 13186
Weil, J. H. 1131, 5857, 9976, 11802
Weiland-Heidecker, U. 12421
Weilenmann, F. 1339, 1376, 1388, 2660, 4752, 6727, 11286
Weiler, E. W. 59, 66
Weimar, E. C. 12360
Weinbaum, S. A. 1923
Weining, S. 2581
Weinman, J. J. 12816
Weinmann, P. 8544
Weinreb, A. 5790
Weipert, D. 11344, 12646
Weir, B. S. 11260
Weir, R. J. 9820
Weis, I. M. 5523
Weisbeek, P. 3520
Weisbeek, P. J. 8553, 10574
Weisemann, J. M. 2853
Weiser, F. 12225
Weisgerber, H. 2264
Weishaupt, F. 2432
Weising, K. 4209, 8207
Weiss, C. A. 3508
Weiss, C. R. 5239
Weiss, D. 2197, 3415
Weiss, H. 2547, 5467
Weiss, J. 10823
Weiss, L. S. 4003
Weissinger, A. K. 5400, 6417
Weisz, J. 1380
Welacky, T. W. 8162
Welch, R. W. 8974
Weldekidan, T. 4842
Welgemoed, C. P. 10818
Welham, T. 5054
Welin, B. 10029
Welke, G. A. 8158, 9353, 11722
Welker, J. M. 10997
Wellburn, A. 6173
Wellburn, A. R. 9951
Weller, J. I. 5790, 12335
Weller, J. L. 12894
Weller, S. C. 4012, 7522
Welling, B. 2638
Wellink, J. 2938
Wells, B. R. 11549
Wells, H. D. 11541
Wells, J. M. 10745
Wells, M. A. 8506
Wells, P. V. 9825
Wellving, A. H. A. 1091
Welsh-Maddux, M. M. 9409
Welters, P. 486
Welty, B. A. 2602
Welty, R. E. 3883
Weltzien Rattunde, E. 6961
Welz, H. G. 6870, 10192
Welzen, P. C. van 8624
Wen, C. M. 7321
Wen, H. H. 13037
Wen, J. 7466
Wen, M. C. 906
Wen, Q. 3328
Wen, S. P. 12167
Wen, T. N. 11559
Wen, Y. X. 246

Wendel, J. F. 949-950, 4320, 4338, 8573, 10957, 11007
Weng, C. J. 12157
Weng, G. W. 6028
Weng, J. 2457, 4679, 5997
Weng, J. H. 9278
Weng, Q. Y. 3854
Weng, W. S. 657
Weng, X. H. 395
Went, J. L. van 1210
Wenzel, G. 111, 123, 2956, 2995, 4473, 4561, 7592, 9456, 11824, 12463, 12591
Wenzel, W. G. 7978
Werck-Reichhart, D. 5661, 8733
Werff, F. van der 4058
Werff, H. van der 8627
Werner, D. 759
Werner, D. J. 4144, 7279
Werner, R. 8326
Wernicke, W. 624
Wernsman, E. A. 3304, 6482, 7392, 9732
Werr, W. 11429
Werteker, M. 163
Werth, C. R. 3791
Wery, J. 8136, 9320
Wesenberg, D. 4770
Wesenberg, D. M. 4785, 10155
Wessel-Beaver, L. 11922
Wessels, J. G. H. 1064
Wessler, S. R. 318, 3712, 4820, 9981
West, A. K. 972
West, C. P. 6069, 11641
West, D. P. 5958
West, D. R. 1459
West, J. 5774, 11212
West, J. A. 5989
West, J. P. 6568, 9883
West, M. A. L. 3549
Wester, D. B. 11530
Wester, L. 4595
Westerkamp, C. 5138
Westermann, D. T. 10598
Westhoff, P. 331, 5846, 6255, 12465, 12471
Westigard, P. H. 5240
Westman, A. L. 12970
Weston, D. T. 7851
Weston, P. H. 56
Westphal, L. 9480
Westra, A. A. G. 8271, 10596-10597
Westra, P. 8061
Weterings, B. 3520
Weterings, K. 2061
Wetschnig, W. 10038
Wettstein, D. von 2608, 3673
Wettstein-Knowles, P. von 2580
Wetzel, C. M. 11216
Wetzstein, H. Y. 3240, 4260, 8504, 13118
Wewala, S. 1661, 7055
Weyens, G. 12114
Weyhrich, R. A. 11330
Weymann, K. 936
Whalen, M. C. 5184
Whalley, W. R. 8119
Whan, B. R. 3649, 7765, 12559
Wheeler, R. A. 9317, 12203
Whelan, J. 8145
Whelan, R. J. 7503, 9843
Whiffin, T. 8591, 8756
Whigham, D. F. 11112
Whipker, B. E. 12245
Whisler, S. L. 1038
Whitaker, B. D. 4003
White, A. 10727
White, A. J. 3669, 5919, 7713
White, B. N. 3372
White, B. W. 4323
White, C. 7917, 9083
White, D. G. 4841, 4846, 7958, 10297, 10299
White, D. W. R. 8107, 8115, 8571
White, E. 5712, 9450
White, E. E. 983
White, F. 9631
White, F. F. 1606, 8047, 10388
White, G. A. 2288
White, I. R. 9401
White, J. 1078
White, J. A. 671
White, J. M. 4042
White, J. W. 3960, 6163, 7102
White, K. A. 3203
White, K. K. 9527
White, L. M. 386, 1517
White, M. A. 3941
White, M. J. 8188
White, P. 1454
White, P. F. 7063
White, P. J. 1381
White, P. R. 9052
White, R. F. 13192
White, R. H. 3386, 5627, 6072
White, T. J. 9990
White, T. L. 4367, 7434, 7478, 8635, 9812
White, W. H. 3266, 5423
Whitecross, M. 2907
Whitecross, M. I. 4218, 4898
Whitehead, V. B. 9893
Whitelam, G. C. 80, 2360, 3285, 4293, 10013, 10022, 10024-10025, 10664, 11194
Whitfeld, P. R. 4818
Whitfield, G. H. 11898
Whitford, W. G. 3373
Whitham, T. G. 7448, 11025
Whitkus, R. 7976
Whitmore, J. C. 10155
Whitmore, W. E. 214, 3608, 3647
Whitney, E. D. 899
Whittemore, A. 3029
Whittemore, A. S. 10032
Whittemore, A. T. 2409
Whittier, R. F. 7078
Whittle, E. 12025
Wi, Z. G. 3322
Wibowo, P. 8539
Wichman, D. M. 11371
Wichtl, M. 12292
Wicke, A. 12977
Wickneswari, R. 9793
Wickremesinhe, E. R. M. 4386
Wicks, R. E. 8217
Wicks, Z. W., III 4843
Widdup, K. H. 11626
Widell, S. 4299
Widholm, J. 12834
Widholm, J. M. 322, 1712, 9078, 11467
Widrlechner, M. P. 6431, 8659
Widstrom, N. W. 347, 3752, 11513, 12685
Wieber, R. 13189
Wiecha, E. 297
Wielgus, S. M. 12933
Wieman, J. S. 6560
Wienand, U. 3717, 5961, 10235
Wieneke, U. 912
Wiersma, J. V. 10158
Wierzbicki, A. 1154
Wierzbicki, A. M. 5782
Wiese, K. L. 4053
Wiesenborn, D. P. 10585
Wieser, H. 12540
Wiesner, I. 4988
Wietsma, W. 6296
Wiggert, L. 12385-12386, 13257
Wight, C. P. 3692
Wigley, P. J. 9971
Wiid, I. 11999
Wijk, J. van 4541
Wijnands, D. O. 7575, 8668
Wikler, K. 3202
Wilcke, C. 10750, 11951
Wilcock, C. C. 13381
Wilcox, C. J. 11963
Wilcox, J. R. 6132-6133
Wilcox, W. F. 10733
Wilcoxson, R. D. 2643-2644, 10158
Wild, A. 5351, 12032, 12976
Wild, G. E. 1488
Wilde, G. E. 8873, 9181
Wilde, P. 2657, 11410
Wilde, R. J. 6475
Wilde, W. J. J. O. de 4482, 9930
Wildermuth, G. B. 7715
Wildman, L. G. 3244
Wildmon, J. C. 10415
Wilen, R. W. 821, 12808
Wiley, V. A. 7364
Wilfret, G. J. 4442
Wilhelm, K. S. 3502, 7659
Wilkes, G. 8998-8999, 11148
Wilkes, T. 12596
Wilkes, T. J. 2648
Wilkin, P. 1809
Wilkins, T. A. 7408
Wilkinson, G. N. 9471
Wilkinson, J. E. 8547
Wilkinson, M. 841
Wilkinson, M. J. 613, 2800, 2957, 2962, 11830
Wilkinson, R. E. 4866-4868, 7981, 9176
Wiłkomirski, B. 8739
Willard, W. E. 11054
Willcox, M. C. 9133
Willekens, H. 6495
Willemot, C. 1825, 5182
Willems, K. 4334
Willems, P. 8299
Willemse, M. T. M. 2213-2214, 9247
Willers, P. 10818
William, M. D. H. M. 4689, 6749, 7755, 7826
Williams, C. E. 8798, 12933
Williams, E. G. 2162, 8852
Williams, E. R. 9791
Williams, J. 8821
Williams, J. G. K. 64, 2338, 6125
Williams, J. H. 865-866, 6423, 9431, 13163
Williams, J. H. H. 8807
Williams, J. T. 11147, 11149
Williams, K. 10080
Williams, M. E. 10250
Williams, P. C. 1295
Williams, P. H. 3047, 6250, 10645
Williams, R. R. 5815
Williams, R. S. 8185
Williams, R. W. 8097
Williams, S. E. 2398
Williams, T. 3456
Williams, W. P. 2704, 11513
Williams-Alanís, H. 6921, 6927-6929, 6945
Williamson, C. L. 547, 10518
Williamson, G. 11098
Williamson, J. D. 3764
Williamson, V. 5191
Williamson, V. M. 7234
Willigmann, I. 12290
Willis, C. L. 6184
Willis, G. 5800
Willis, J. H. 2172, 4413
Willmitzer, L. 2353, 3579, 4577, 6232, 8246, 10566, 10568, 11821, 12413
Wills, C. 8793
Wilmink, A. 11196
Wilson, A. 2052
Wilson, A. C. 11436
Wilson, C. 2055
Wilson, C. M. 1445-1446
Wilson, C. R. 4008
Wilson, D. M. 347
Wilson, D. O., Jr. 10272
Wilson, D. R. 2982, 10599
Wilson, F. D. 953, 6523, 8582, 9755
Wilson, G. 1045
Wilson, G. F. 5506
Wilson, G. P. M. 462, 6085-6086
Wilson, G. W. 5727
Wilson, G. W. T. 2481, 8903
Wilson, H. D. 3867
Wilson, I. D. 732, 10671
Wilson, J. 82, 1776
Wilson, J. M. 1597
Wilson, J. P. 7987, 11541
Wilson, K. 3505
Wilson, M. A. 10686
Wilson, P. 6714
Wilson, P. G. 4360
Wilson, P. J. 12439
Wilson, P. W. 602, 754
Wilson, R. 11076
Wilson, R. C. 8099, 11658
Wilson, R. E. 7799
Wilson, R. F. 7089, 9355-9356, 12311
Wilson, R. K. 12266
Wilson, R. L. 2701
Wilson, R. N. 8820
Wilson, T. G. J. 1959
Wilson, T. J. 6673
Wilson, T. M. A. 918, 2313, 8789
Wilson, Z. A. 7636
Wiltshire, R. J. E. 12895
Wimpee, C. F. 2398
Winberg, B. C. 3803
Winefield, C. S. 8118
Wing, J. F. 4439
Wing, R. A. 41, 3486, 7211, 7975
Wing, S. L. 133
Winge, P. 1933
Wingender, R. 1970
Wingfield, B. D. 13261
Wingfield, M. J. 13261
Wingsle, G. 6553, 11026
Winiarski, J. 12544, 12590
Winiger, F. A. 2949, 11792
Winkel, T. 7294
Winkelhorst, G. D. 10397
Winkelmann, T. 7515
Winkler, R. 1170
Winkler, R. G. 10260-10261, 12675
Winsor, J. A. 2182
Winter, A. M. 7661
Winter, W. 9674
Winterer, J. 1117, 2262
Wintermantel, W. M. 4309
Wintz, H. 11076
Winzeler, H. 1339, 1388, 2471, 2534, 2660, 3577, 4752, 6727, 7812, 10104, 11358, 12490, 12493
Winzeler, M. 1339, 1376, 1388, 2471, 2534, 2660, 7812, 10104, 11358, 12490
Wise, R. 12633
Wise, R. P. 6866, 9076, 12624, 12670
Wiseman, B. R. 2700, 3779-3780, 4854, 6910-6911, 6952, 9164, 11513
Wisk, E. L. 12828
Wisman, E. 1830, 5175-5176, 9543
Wisniewski, M. E. 10757
Wissinger, B. 8670
Wit, P. J. G. M. de 3075, 3477, 6276, 6658
Withers, L. A. 1881, 8437, 10044, 11249
Witkowska, A. 455
Witkowski, E. 10116, 10125
Witrzens, B. 10060
Witsenboer, H. 3051, 8313, 8347
Witt, M. D. 963, 3585, 7429, 11518, 12690
Witte, B. 5838
Wittenberg, K. M. 10409
Witty, M. 2904
Wobus, U. 2879, 9380, 12416, 12634
Woerdenbag, H. J. 13390
Wohlfarth, T. 1716
Wöhrmann, K. 1080
Wójcicki, J. J. 4348, 7439
Wojciechowska, B. 158
Wojciechowski, A. 6342
Wojciechowski, M. F. 3937
Wolf, D. P. 5978-5979
Wolf, E. A. 4042
Wolf, G. 6500

Wolf, H. 7568
Wolf, P. G. 4430
Wolf, S. 4308, 9546, 11170, 13227
Wolfe, A. D. 5640
Wolfe, D. W. 1727, 4036
Wolfe, K. H. 6564, 11261
Wolfe, M. S. 2306, 6654
Wolff, D. W. 4102
Wolff, J. L. C. 5527
Wolff, K. 3390, 4414, 12249
Wolfraim, L. A. 4941
Wolfram, B. 10750
Wollenberg, K. R. 2200
Wolosiuk, R. A. 8468
Wolpert, J. A. 8430
Wolpert, T. J. 12640
Wolski, T. 8977, 8985
Wolstenholme, D. R. 10232
Wolter, F. P. 4567, 8187
Woltering, E. J. 5639
Wolters, A. M. A. 4058-4059, 5174, 7217
Wolters, P. 8252
Wolyn, D. J. 10652, 11846
Wolynetz, M. S. 11826
Wong, B. M. 6544, 11000
Wong, K. C. 12021, 13104, 13110
Wong, K. M. 2212, 7558
Wong, L. M. 4062
Wong, L. S. L. 2539
Wong, N. 10014
Wong, Y. J. 6411
Wongpiyasatid, A. 9351, 10478
Wood, A. J. 10516
Wood, B. A. 10511
Wood, C. 10080
Wood, D. 4491, 4544, 12785
Wood, D. A. 4503, 4507
Wood, D. T. 10400
Wood, E. D. 9331
Wood, J. J. 8717
Wood, J. R. 12900
Wood, J. T. 12868
Wood, M. G. 825
Wood, O. W. 3383-3384
Woodard, K. E. 12091
Woodend, J. J. 2510, 3637, 7369, 10888
Woodfield, D. R. 9282, 11660
Woodgett, J. R. 4580
Woodiwiss, A. H. V. 1834
Woodman, W. 7976
Woodman, W. L. 5988, 7936, 11504
Woodruff, D. R. 3583-3584
Woods, D. L. 3200
Woods, J. 13259
Woods, J. E. 11119
Woods, S. H. 11119
Woodson, W. R. 4425, 5648
Woodward, W. T. W. 1649-1651, 2823, 3908-3909
Woodwark, M. 8829
Woolley, J. N. 5714
Woolliams, J. A. 4617, 7666, 8762-8763
Woolner, E. M. 4205
Wordragen, M. F. van 12995
Worede, M. 11144
Work, T. M. 11798-11799
Worland, A. J. 8901, 10101
Worrall, D. 4203
Worrall, W. D. 3667
Worsham, A. D. 7972
Wortmann, C. S. 9398
Woś, H. 8996, 10210
Wouters, D. 3008
Wratten, S. D. 260, 2570
Wray, J. L. 5836, 7846
Wray, N. R. 8762-8763
Wricke, G. 7872, 8981, 9480, 11409-11410
Wright, A. 11516
Wright, B. 5901
Wright, D. G. 10511
Wright, D. M. 3001
Wright, D. S. C. 12487
Wright, F. S. 3245
Wright, G. 6109, 6425
Wright, G. C. 6418, 7360-7361
Wright, J. A. 8590, 9809, 13306
Wright, J. M. 3922
Wright, P. 9588
Wright, R. J. 9289, 10064
Wright, S. 9018, 9609
Wright, S. J. 9257, 11648
Wrigley, C. W. 2505, 8910
Wrolstad, R. E. 9592-9593
Wu, A. H. 5156
Wu, A. Z. 8040
Wu, B. H. 10322
Wu, B. J. 3281
Wu, B. L. 8431
Wu, C. C. 9894, 12273-12274
Wu, C. F. 11534
Wu, C. G. 3027
Wu, C. M. 6991, 9210
Wu, C. X. 1174
Wu, D. H. 669
Wu, F. C. 196
Wu, F. F. 7234
Wu, G. 4903
Wu, H. B. 824
Wu, H. K. 11582, 12731
Wu, H. M. 200, 4300
Wu, H. X. 429
Wu, J. B. 4318
Wu, J. K. 10074
Wu, J. L. 413, 10386
Wu, J. M. 13350
Wu, J. S. 12003
Wu, J. T. 2777
Wu, J. Y. 948, 11912
Wu, J. Z. 410, 4886, 8006, 10353, 11567
Wu, K. 10018
Wu, K. K. 894
Wu, K. Q. 6606, 8734
Wu, K. S. 401, 3809
Wu, L. B. 10366
Wu, L. C. 3312
Wu, L. H. 8109
Wu, L. Q. 9745
Wu, L. R. 4742
Wu, L. Z. 6329
Wu, M. 4453, 7321
Wu, M. C. 12050, 12122
Wu, M. G. 2748
Wu, M. J. 734
Wu, M. X. 2762
Wu, M. Z. 669
Wu, Q. 10723
Wu, Q. A. 11499
Wu, Q. S. 192
Wu, R. 394, 402, 10359, 11565, 13422
Wu, R. L. 8586, 12188, 13272
Wu, R. Z. 1614
Wu, S. C. 11108
Wu, S. F. 6303
Wu, S. G. 11061
Wu, S. H. 11224
Wu, S. T. 719
Wu, S. X. 13060
Wu, S. Y. 6326, 9620
Wu, S. Z. 2761
Wu, T. 5318
Wu, T. Y. 4075
Wu, W. J. 436
Wu, W. M. 6028
Wu, W. R. 102
Wu, W. X. 1945
Wu, X. J. 807
Wu, X. L. 345
Wu, X. M. 9743, 12042, 13129
Wu, X. Q. 6164
Wu, X. R. 3613
Wu, X. W. 5303
Wu, X. Y. 12084
Wu, X. Z. 183
Wu, Y. F. 490, 6164
Wu, Y. L. 790, 9627
Wu, Y. M. 12052
Wu, Y. S. 2556
Wu, Y. V. 1451
Wu, Y. Y. 2737
Wu, Z. B. 954
Wu, Z. F. 4903
Wu, Z. L. 8800
Wu, Z. P. 10473
Wu, Z. S. 2524, 3614, 6740, 8920, 11319
Wu, Z. W. 5313
Wu, Z. Y. 1867, 2152, 11010, 11036
Wubben, J. P. 6276
Wuidart, W. 6382, 10872
Wullems, G. 2061
Wünn, J. 2456, 10378
Wunnachit, W. 13098
Wünsch, A. 10586
Wurtele, E. S. 325
Wurz, G. 12287
Wycoff, K. 3919
Wyk, A. E. van 2206
Wyk, B. E. van. 1024
Wyk, G. van 7574
Wyn Jones, R. G. 1253, 1841
Wyndham, F. S. 3202
Wynne, J. C. 9687, 13164
Wyöni, P. I. 6691
Wyse, D. L. 3771, 12791
Wyse Jackson, P. S. 4535
Wysocki, D. J. 2568
Xavier-Filho, J. 588, 9438
Xi, K. 3208
Xi, P. J. 2752
Xi, S. X. 12720
Xi, Y. A. 3838, 12727
Xia, B. S. 9333
Xia, J. Q. 8050
Xia, L. F. 2158, 11038
Xia, Q. Z. 6299, 11954
Xia, Y. H. 1605
Xia, Z. A. 925, 2244, 6984
Xia, Z. L. 8105, 9286
Xiang, H. W. 10129
Xiang, M. C. 3818
Xiang, P. C. 907
Xiang, Q. Y. 2398, 3350
Xiang, S. V. 9196
Xiang, Y. B. 430
Xiang, Y. W. 4892
Xiang, Z. 6917
Xiao, B. C. 13241
Xiao, C. H. 12043
Xiao, G. S. 6315
Xiao, H. W. 6015
Xiao, J. H. 945
Xiao, L. 330
Xiao, S. D. 10955
Xiao, S. H. 2460
Xiao, T. H. 870, 1994, 6430
Xiao, T. J. 11038
Xiao, W. Y. 12515-12516
Xiao, X. G. 4040
Xiao, Z. A. 1910
Xiao, Z. Q. 6015
Xie, C. Y. 5599, 13259
Xie, D. X. 7729
Xie, G. S. 1540
Xie, W. S. 13192
Xie, X. D. 9207
Xie, X. J. 9316
Xie, X. Y. 10221
Xie, Y. 394
Xie, Y. F. 6051
Xifreda, C. C. 2207
Xike, Q. 697
Xin, H. 1277-1278
Xin, P. G. 5221, 7253
Xin, Z. 10660
Xin, Z. Y. 1293, 3618
Xing, L. P. 12774
Xing, X. H. 1581
Xing, Y. J. 5547
Xing, Z. Y. 3850
Xiong, F. Q. 4875
Xiong, H. P. 964
Xiong, J. H. 3848
Xiong, Z. M. 2748, 9205
Xiqués, X. 2226, 7548
Xoconostle-Cázares, B. 53
Xu, A. B. 282, 287
Xu, B. 3946, 6991, 11721
Xu, C. 12014
Xu, C. J. 4903
Xu, D. Q. 11708
Xu, F. 12515-12516
Xu, F. Z. 10274
Xu, G. 12662
Xu, G. F. 527
Xu, G. W. 6948
Xu, G. Z. 10786
Xu, H. 7276, 11721
Xu, H. L. 13004
Xu, J. 2634, 8076, 12498
Xu, J. C. 3822
Xu, J. F. 7947
Xu, J. J. 10985
Xu, J. P. 13406
Xu, M. Y. 1519
Xu, P. 5799
Xu, P. L. 1344, 11379
Xu, Q. Z. 7090, 11725
Xu, R. L. 408
Xu, S. 2295
Xu, S. J. 8063
Xu, S. M. 2847
Xu, S. S. 1574
Xu, S. Y. 1279
Xu, S. Z. 8051, 10386
Xu, W. W. 7027, 12793
Xu, X. B. 9222
Xu, X. D. 8397
Xu, X. M. 221, 409, 433, 2761, 3626, 9207
Xu, X. P. 4883
Xu, X. Z. 11581
Xu, Y. 685, 6215, 13234
Xu, Y. B. 2367, 7995
Xu, Y. C. 981
Xu, Y. J. 10978
Xu, Y. L. 7262
Xu, Y. N. 5317
Xu, Y. Q. 917
Xu, Y. S. 10602
Xu, Z. F. 10741
Xu, Z. H. 356, 499, 7199
Xu, Z. J. 4888
Xu, Z. R. 2166
Xu, Z. T. 5987
Xu, Z. Y. 10886
Xuan, C. Z. 10806
Xuan, Y. N. 6120
Xue, G. 8967
Xue, G. R. 4130
Xue, J. P. 843
Xue, Q. Z. 845
Xue, S. Y. 9196
Xue, X. Z. 199
Xue, Y. B. 3413, 9704
Xue, Z. T. 8320
Xuhan, X. 11847
Yabe, N. 8813
Yabushita, T. 10358
Yabuya, T. 9884
Yada, R. 1776
Yada, R. Y. 1791, 12939
Yadav, A. C. 9472
Yadav, B. 3660
Yadav, I. P. S. 461
Yadav, I. S. 4182, 5406
Yadav, L. 1739
Yadav, L. N. 11107
Yadav, N. 5781
Yadav, N. S. 1154, 13122
Yadav, O. P. 1951, 6008, 7986, 12924
Yadav, R. 205, 1496, 6959, 10328
Yadav, R. K. 425, 3969, 3988, 4706, 5943, 9690, 10108-10109, 10514, 10878, 10896
Yadav, R. P. 9445
Yadav, R. S. 286
Yadav, V. K. 10847
Yadav, Y. 10325
Yadava, H. S. 6830, 7046
Yadava, J. S. 10973
Yadava, N. 7546
Yadava, T. P. 1951
Yadov, C. R. 8124
Yadrov, A. A. 9639
Yagil, G. 8792
Yague, E. 4503
Yahyaoui, A. 250
Yakovets, V. A. 2041
Yakovlev, A. F. 1369
Yakuwa, T. 10635
Yamada, K. 9534

Yamada, M. 776, 1431, 8426-8427, 8452, 9597
Yamada, M. A. 2740
Yamada, T. 250, 3925, 5043, 8887
Yamada, Y. 793, 8446, 8731, 9626, 10928, 13382
Yamada, Y. T. 11101
Yamagata, H. 9544
Yamagishi, H. 8295, 12962
Yamagishi, M. 427, 2202
Yamaguchi, A. 12256
Yamaguchi, H. 5073
Yamaguchi, I. 2011
Yamaguchi, J. 712, 3834, 10641
Yamaguchi, K. 9830, 9833
Yamaguchi, M. 8405-8406, 8413
Yamaguchi, M. A. 9875
Yamaguchi, T. 10920, 12592
Yamaguchi-Shinozaki, K. 2352, 3509, 6680, 7620, 7660, 11205
Yamakami, M. 10914
Yamakawa, S. 9663
Yamaleev, A. M. 6776
Yamamori, M. 1297, 3633
Yamamoto, H. 10205
Yamamoto, I. 9271
Yamamoto, J. 3049
Yamamoto, K. 3511, 8001, 8006, 10353, 11558
Yamamoto, K. T. 11783
Yamamoto, M. 447, 793, 1336, 8446, 9626
Yamamoto, N. 7475, 7479
Yamamoto, S. 9622, 12185
Yamamoto, Y. 8004, 11085, 11089, 11554
Yamamoto-Toyoda, A. 1147
Yamane, H. 776, 8426-8427, 8452, 9597
Yamano, S. 4315
Yamasaki, A. 9884
Yamasaki, M. 11564
Yamashita, H. 991, 13085
Yamashita, M. 4024
Yamauchi, D. 8224
Yamauchi, M. 443, 1552, 1554, 3861, 12755
Yamazaki, K. 3501, 9440
Yamazaki, T. 1008, 8738, 12240, 12257, 12302
Yan, B. 1401
Yan, C. G. 7383
Yan, C. J. 429
Yan, C. X. 8019
Yan, J. 1302, 2650
Yan, J. J. 5549
Yan, Q. S. 279, 429, 10350
Yan, W. J. 2105
Yan, W. Y. 9238
Yan, X. F. 4735
Yan, Y. M. 10360
Yan, Z. C. 10722
Yanagawa, S. 2455
Yanagi, K. 13327
Yanagi, M. 4449
Yanagihara, K. 4926
Yanagihara, S. 12733
Yanagisawa, T. 9336, 9338
Yanchuk, A. D. 2144
Yaneshita, M. 8062
Yang, A. J. 314
Yang, B. X. 3316
Yang, C. 7740
Yang, C. D. 6044, 10342, 10366
Yang, C. H. 4044
Yang, C. M. 9307
Yang, C. P. 5097
Yang, D. 1710
Yang, G. 868, 4854, 6911
Yang, G. Y. 504, 12839
Yang, H. 4193
Yang, H. A. 4742
Yang, H. F. 6164
Yang, H. Y. 635, 6301, 9584
Yang, J. 734, 9211, 9368
Yang, J. C. 4383, 12199
Yang, J. H. 12746
Yang, J. L. 190, 2650, 3598, 3902, 11316, 11325
Yang, J. P. 1419, 6304
Yang, J. S. 399, 1526, 2732
Yang, J. Y. 10450
Yang, J. Z. 2106
Yang, K. L. 449
Yang, M. Q. 10959
Yang, M. Z. 902, 6494, 7391
Yang, P. 188
Yang, P. C. 891
Yang, Q. 6118, 10473, 11724, 12835, 12841
Yang, Q. K. 10473
Yang, Q. S. 7944, 9135-9136
Yang, R. 13324
Yang, R. C. 6549, 13004
Yang, S. F. 3484, 12831
Yang, S. J. 3274, 4888
Yang, S. L. 5203
Yang, T. 550
Yang, T. Z. 2468, 3595
Yang, W. C. 521, 3967
Yang, W. P. 920
Yang, W. Y. 5113, 6241
Yang, X. H. 6421
Yang, X. M. 1279, 11624
Yang, X. R. 6496
Yang, X. T. 5865
Yang, Y. B. 1574
Yang, Y. F. 8019
Yang, Y. H. 2623
Yang, Y. L. 4035
Yang, Y. M. 3627
Yang, Y. P. 11061
Yang, Y. S. 1895, 4881
Yang, Y. Z. 12711
Yang, Z. 7675, 11259
Yang, Z. B. 10517
Yang, Z. F. 12710
Yang, Z. K. 9560
Yang, Z. L. 1302
Yang, Z. M. 189, 8129, 9738
Yang, Z. N. 7199
Yang, Z. P. 1527, 2524, 2752, 3614, 6965
Yang, Z. S. 3336, 13250
Yang, Z. Y. 1531, 2742, 3336, 3822, 4130
Yaniv, Z. 3214
Yankoulov, M. 12617
Yankulov, M. 12617
Yannitsaros, A. 13373
Yano, A. 3807
Yano, M. 7693, 8006, 10353, 11282, 11558
Yano, Y. 2607
Yanofsky, M. F. 2681-2682, 6489, 7219
Yao, C. B. 10964
Yao, C. Q. 183
Yao, D. Y. 492
Yao, J. L. 7523, 9867
Yao, J. X. 198, 2467
Yao, L. S. 11552
Yao, P. 2556
Yao, Q. X. 1332
Yao, Q. Y. 2531
Yao, W. G. 8894
Yao, Y. G. 118
Yao, Y. M. 4164
Yao, Z. W. 390
Yap, T. C. 11268
Yapo, A. 4282
Yarrow, S. 13138
Yash Pal 10849
Yashpal Yadav 10325
Yasin, M. 2880
Yasin, S. I. 9235
Yasseen, B. T. 10183
Yasuda, S. 3679
Yasuda, T. 10920
Yasui, K. 5296
Yasukochi, Y. 9198, 10355
Yasumuro, Y. 1383, 2465
Yasutani, I. 12422
Yates, I. E. 816, 9649
Yatou, O. 12734
Yatsevich, A. P. 10099
Yatsunami, K. 3049
Yau, S. K. 1266, 8779
Yazawa, M. 12004
Yazawa, S. 7536
Yazdani, S. S. 9445
Yazdisamadi, B. 4940
Ye, C. D. 1128, 1527
Ye, C. X. 2166, 3377
Ye, C. Y. 5315
Ye, F. 823, 4564
Ye, G. Z. 2244
Ye, H. 1911
Ye, H. C. 8767
Ye, K. N. 810, 6327
Ye, K. S. 5313
Ye, S. Y. 5315
Ye, X. F. 925, 2244
Ye, X. G. 196
Ye, X. L. 10813
Ye, Y. M. 9627-9628
Ye, Y. P. 8432
Ye, Z. 13324
Ye, Z. H. 4416
Ye, Z. N. 2097
Ye, Z. X. 8040
Yean, L. H. 5624
Yeang, H. Y. 9764
Yeates, S. J. 512, 10532, 11778, 11782
Yeh, C. H. 6646, 9233
Yeh, F. C. 148, 6549, 13324
Yeh, F. T. 7545, 12289
Yeh, K. C. 12122, 13230
Yeh, K. W. 4018, 6646, 9233
Yeh, M. S. 509
Yelenosky, G. 8447
Yelle, S. 677, 7885, 8247
Yen, C. 190, 3598, 3902, 11316, 11325
Yen, D. E. 4019
Yen, H. C. 10663
Yen, S. F. 12954
Yen, Y. 1247, 7767
Yencho, G. C. 11843
Yenofsky, R. L. 4989
Yensen, N. P. 1648
Yeo, P. F. 11132
Yeoh, H. H. 12950
Yeong, C. Y. 4453
Yepes, L. M. 5233, 8389, 11949, 13050
Yerk, G. 11444
Yerk, G. L. 9058-9059, 9067
Yeşiloğlu, T. 8460
Yeung, E. C. 3550, 8285, 12418
Yevtushenko, D. P. 12932
Yi, F. 3025
Yi, F. Y. 9314
Yi, G. J. 6326
Yi, H. Y. 9314
Yi, L. 9219
Yi, M. L. 6592
Yi, Q. H. 408
Yi, X. P. 3841
Yi, Y. 7628
Yian, F. Y. 658
Yibrah, H. S. 2051
Yie, X. G. 3609
Yie, Y. 9966
Yıldırım, B. 9471
Yin, C. Q. 3836
Yin, C. Y. 5865
Yin, D. D. 2751
Yin, H. Y. 494
Yin, J. 10093, 12505
Yin, J. H. 1576
Yin, Z. Y. 5317
Ying, C. 7490
Ying, C. C. 5599
Ying, C. S. 3792, 9234, 10337-10338, 11577
Yitbarek, N. 4836
Yitbarek Nigatu 4836
Ylönen, A. 13295
Ylstra, B. 1144, 12265
Yocum, J. O. 12828
Yoder, J. I. 5170, 7599, 8328, 13003
Yoder, M. 1116
Yogesh Vikal 1765, 7149
Yokoi, F. 5445
Yokoo, M. 414, 12741, 12769
Yokoyama, K. 8352
Yokoyama, M. 4449
Yokoyama, R. 10612, 10932
Yokoyama, S. 652, 4643
Yomoda, A. 5148
Yomogida, H. 9833
Yomogida, K. 4449
Yonchev, G. 10942
Yoneda, K. 4410
Yonemori, K. 5329, 10819
Yoneyama, T. 5032-5033
Yong, Z. Y. 12112
Yoo, O. J. 8370
Yoo, Y. B. 6620
Yoon, E. S. 3524
Yoon, J. Y. 3048, 4096
Yoshiba, Y. 119, 12739
Yoshida, H. 281, 2504, 3569
Yoshida, K. 546, 10705, 11123
Yoshida, M. 1144, 4179, 8405-8406
Yoshida, N. 11850
Yoshida, S. 3306, 8887
Yoshida, T. 276, 3073, 8445, 10912
Yoshigi, N. 12593
Yoshikawa, H. 8317
Yoshikawa, R. 8948
Yoshimura, E. R. 3185
Yoshimura, S. 11567
Yoshimura, Y. 10915
Yoshinaga, K. 8426-8427, 8452, 9597
Yoshinaga, M. 623
Yoshino, K. 9198, 10356, 11566
Yoshioka, K. 13032-13033
Yoshioka, T. 4179
Yoshioka, Y. 1147
Yoshizawa, A. 10912
Yoshizawa, T. 2530, 12566
Yot, P. 3211
You, C. B. 1076
You, M. A. 7083
You, X. L. 2753
Young, A. G. 2042, 7382, 10917
Young, B. A. 9374, 10318-10320, 11532
Young, E. 1455
Young, G. D. 8636
Young, H. J. 2188, 12963
Young, J. C. 7641, 8819
Young, J. E. B. 6809
Young, K. J. 8958
Young, L. D. 6143, 10458, 11732
Young, M. 5473
Young, M. M 5514
Young, N. 12826
Young, N. D. 5761, 6144, 8231, 8338, 13016
Young, N. M. 2850
Young, R. J. 1784, 4056, 9537
Young, R. M. 64
Young, T. 4632
Young, T. E. 5180, 8335, 9554, 11432
Young, W. A. 602, 10752
Yousaf, H. 3970
Yousif, G. 13175
Youssefian, S. 2458
Yu, C. H. 2070, 5460
Yu, C. M. 964
Yu, D. Q. 6327
Yu, D. Y. 1156
Yu, F. 221, 433, 3626, 5506
Yu, F. S. 734
Yu, G. H. 12542
Yu, G. L. 1167, 2362, 2748
Yu, H. B. 494
Yu, H. G. 513, 9376
Yu, H. S. 13219
Yu, H. Z. 10959
Yu, J. J. 282, 287, 11555
Yu, J. S. 9738, 9749
Yu, J. W. 13229
Yu, K. F. 2337, 3911
Yu, L. M. 792, 2350
Yu, L. X. 3811
Yu, M. L. 8382
Yu, M. M. 2847

Yu, P. H. 648
Yu, Q. Y. 2102
Yu, S. M. 11424, 11588, 12714
Yu, S. Q. 8401
Yu, S. W. 6496
Yu, S. X. 941
Yu, X. 12247
Yu, X. D. 82
Yu, X. Q. 3561, 10337
Yu, Y. A. 9207
Yu, Y. B. 1490
Yu, Y. F. 2942
Yu, Y. G. 2690, 8164
Yu, Y. J. 5865
Yu, Y. R. 4427
Yu, Z. 490
Yu, Z. H. 12826
Yu, Z. L. 10965
Yu, Z. P. 357
Yuan, C. X. 7402, 7422
Yuan, F. H. 10975
Yuan, H. Y. 3676
Yuan, J. S. 10691
Yuan, L. J. 4875, 9219
Yuan, M. 5799
Yuan, M. B. 282, 287
Yuan, S. C. 2739, 9211
Yuan, W. H. 4742
Yuan, W. M. 398
Yuan, Z. D. 240, 5853
Yuan, Z. K. 10962
Yucel, I. 1116
Yücel, M. 1052, 6477
Yue, C. 6924
Yue, J. X. 948
Yuen, C. M. C. 8357
Yuen, J. M. F. 3400
Yuĭ, Ch. Kh. 2070, 5460
Yukawa, T. 13379
Yukinaga, H. 13101
Yun, S. J. 4786
Yun, W. C. 11698
Yunes, J. A. 6883
Yunus, M. 1307, 4705
Yunusa, I. A. M. 8892
Yurenkova, S. I. 7061
Yurina, O. V. 11926
Yurina, T. P. 5216-5217
Yurkova, G. N. 2035
Yurtsev, B. A. 4970, 5621
Yusifov, M. A. 5177
Yuste, P. 5053
Yusuf, A. 13097
Yusuf, M. 6377
Zaag, P. vander 2984, 8267
Zaal, M. A. C. M. 642, 4033
Zabala, M. T. 8238
Zabaleta, E. 4591, 13207
Zabeau, M. 9018
Zabel, P. 682, 1830, 5175, 5191, 12995
Zabirova, E. R. 9060
Zabrodina, M. V. 9099-9100
Zabrodina, S. N. 10744
Zacheo, G. 695, 711, 2917
Zadoks, J. C. 6650
Zafar, Y. 12743
Zaffuto, G. 3192
Zafirova, T. 9610
Zagornyan, E. M. 10662
Zagorska, N. A. 11081, 11087
Zaharieva, M. 7822, 7829
Zaheer, S. H. 1815
Zaheer Ahmed 3586
Zahid, A. R. 6436
Zahour, A. 7809
Zaidi, N. 1926
Zaiter, H. 7103
Zaiter, H. Z. 6166
Zaitlin, D. 5958, 9139
Zaitlin, M. 3481, 5475, 8570, 10945
Zajícová, M. 9464
Žák, I. 4753
Zakarauskaitė, D. 3205
Zakay, Y. 9553
Zakharieva, M. 7822, 7829
Zakharov, I. A. 4556
Zaki, W. M. W. 12153
Zakrzewska, E. 2883
Zala, P. V. 4256
Zalenskiĭ, A. O. 8184
Zalensky, A. 3967
Zallocchi, E. M. 1686
Zamă, E. 8867
Zaman, F. U. 1535
Zaman, W. 2918
Zambolim, L. 5038
Zambon, F. R. A. 651
Zambryski, P. C. 2319
Zamir, D. 681, 9553, 11888, 11895, 13009
Zamora, N. A. 7458
Zamski, E. 11872
Zanakis, G. N. 9342-9343, 11711
Zanatta, A. C. A. 4674
Zandvoort, E. A. 8297
Zanetti, R. 778
Zanettini, M. H. B. 6862
Zang, G. G. 2105, 2107, 10986
Zanlungo, S. 142, 12931
Zapata, F. 2867
Zapata, F. J. 1579, 2727, 4889, 8030
Zappia, R. 8455
Zapryanov, S. 2631
Zaragoza, C. 7871
Zarembinski, T. I. 444
Zargar, G. H. 2240, 3987, 10844
Zarlengo, P. J. 8074
Zarre, S. 1683
Žárský, V. 2064, 2072
Zarzycka, H. 6242
Zarzycki, J. 12792
Záškodová, J. 5093
Zatylny, A. M. 5267
Zauli, G. 2273
Zavada, M. S. 4392
Zavarin, E. 2116, 2136
Zaveri, P. P. 1761
Zbinden, W. 10827
Zechner, G. 12287
Zeddies, J. 12652-12653
Zeevaart, J. A. D. 69
Zefelippo, M. 1251
Zeh-Nlo, M. 9802
Zehnacker, C. 7221
Zehr, U. B. 4861
Zeidan, M. 681, 9553, 11895
Zeigler, R. S. 3853, 3858, 7001, 8051, 12772
Zeinali-khanghah, H. 6130
Zeise, K. 8488
Zelcer, A. 13218
Zelenková, S. 5348
Zelenov, A. N. 1736, 11756
Zelenskiĭ, G. L. 3797
Zeller, F. J. 247, 1281, 2473, 2547, 7830, 8925, 11362, 12570
Zeltz, P. 10231, 12468
Zema, V. 709-710
Zemetra, R. S. 10152
Zemledelie 2413, 2423, 4646, 4672
Zemskova, E. A. 5561
Zen, H. L. 2739
Zen, X. J. 3701
Zeng, D. F. 10885
Zeng, D. P. 5547
Zeng, F. 9305
Zeng, G. W. 5151
Zeng, H. B. 11334
Zeng, H. L. 9211
Zeng, L. X. 2761
Zeng, M. Q. 9130
Zeng, R. Y. 3821
Zeng, S. M. 3659
Zeng, S. R. 6326
Zeng, X. P. 2744
Zeng, X. X. 5317
Zeng, Z. B. 4625, 6685
Zenkteler, M. 1184, 1938
Zerneke, F. 2651
Zetsche, K. 10858
Zeuli, P. L. S. 3980, 4667
Zeven, A. C. 537, 612
Zeyen, R. J. 7861
Zeyl, C. 6693
Zhai, H. Q. 3284
Zhai, W. X. 12642
Zhai, X. J. 9748
Zhai, X. L. 5902
Zhamsaranova, O. N. 2477
Zham'yanova, T. D. 4695
Zhan, X. Y. 428, 6045
Zhan, Y. 395
Zhan, Y. G. 2119
Zhanaeva, T. A. 7511
Zhang, A. M. 169
Zhang, A. Z. 4892
Zhang, B. 60, 5280
Zhang, B. L. 5281
Zhang, B. W. 4031
Zhang, C. 10086
Zhang, C. J. 658, 8019, 12986
Zhang, C. K. 2079
Zhang, C. M. 5987, 8895
Zhang, D. 6984, 9761
Zhang, D. L. 2097
Zhang, D. P 6051
Zhang, D. S. 5861, 5865
Zhang, D. X. 9761
Zhang, D. Y. 12443
Zhang, F. 7603, 10364
Zhang, F. N. 10450
Zhang, G. 4824
Zhang, G. C. 11116
Zhang, G. D. 12840
Zhang, G. L. 12860
Zhang, G. R. 1702, 2873
Zhang, G. S. 1284
Zhang, G. Y. 9745
Zhang, G. Z. 410, 4886
Zhang, H. 207, 1332, 2531, 5800, 7629, 12397, 12504
Zhang, H. B. 3486, 7211
Zhang, H. D. 2736, 3561
Zhang, H. Q. 6049
Zhang, H. S. 6801, 9358
Zhang, H. Y. 4904
Zhang, J. 2847, 10691
Zhang, J. F. 12052
Zhang, J. K. 10291
Zhang, J. L. 434, 4885
Zhang, J. M. 1690
Zhang, J. N. 3049
Zhang, J. Q. 12013
Zhang, J. R. 797, 8386, 8391, 10274, 10808
Zhang, J. W. 5605, 8649, 12223
Zhang, J. X. 240, 952, 5853, 6035
Zhang, J. Y. 10340
Zhang, J. Z. 8477
Zhang, K. H. 12506
Zhang, L. 1331, 2847, 3669, 4031, 4730, 5919, 7713, 8964, 10945
Zhang, L. B. 4888
Zhang, L. G. 385
Zhang, L. M. 10786
Zhang, L. Q. 1331, 4730
Zhang, L. X. 3766, 5667, 6602, 11708
Zhang, L. Y. 804, 1614, 1790, 2777
Zhang, M. 13041
Zhang, M. P. 9600
Zhang, M. X. 8102
Zhang, M. Y. 9203
Zhang, N. C. 496
Zhang, P. 10628
Zhang, P. G. 2119
Zhang, Q. 406, 3850, 9226
Zhang, Q. F. 154, 1357, 7840, 12626
Zhang, Q. W. 5547
Zhang, Q. X. 406, 7974
Zhang, R. B. 5850
Zhang, R. C. 148
Zhang, S. 156, 540
Zhang, S. B. 198
Zhang, S. D. 3100
Zhang, S. G. 9207
Zhang, S. H. 6014
Zhang, S. L. 1174
Zhang, S. N. 5228, 7249, 8305, 11964
Zhang, S. P. 6924
Zhang, S. Q. 6159
Zhang, S. W. 6036
Zhang, S. Z. 169, 3631
Zhang, T. X. 10384
Zhang, T. Z. 3320
Zhang, W. 426, 4603, 10375, 12167
Zhang, W. B. 8386, 8391
Zhang, W. G. 7995
Zhang, W. J. 246, 2468
Zhang, W. Z. 84
Zhang, X. 3819
Zhang, X. B. 11719
Zhang, X. F. 13239
Zhang, X. G. 10962
Zhang, X. J. 622, 7090, 10628, 11725
Zhang, X. L. 9742, 10955
Zhang, X. M. 12727, 12763
Zhang, X. P. 997, 11914, 12269, 13035-13036
Zhang, X. Q. 279, 429, 2468
Zhang, X. R. 870, 1994, 6430
Zhang, X. S. 3421, 8681
Zhang, X. W. 12488
Zhang, X. X. 12157
Zhang, X. Z. 10336, 10341
Zhang, Y. 2778
Zhang, Y. H. 2221, 3817, 9952
Zhang, Y. K. 436, 6049
Zhang, Y. L. 720, 1290
Zhang, Y. N. 806
Zhang, Y. Q. 3698
Zhang, Y. T. 10093, 12505
Zhang, Y. X. 8393
Zhang, Y. Y. 13042
Zhang, Y. Z. 534, 1423
Zhang, Z. 5237, 5592
Zhang, Z. G. 2739, 9211
Zhang, Z. H. 10094
Zhang, Z. L. 3676
Zhang, Z. P. 7974, 8109, 11913
Zhang, Z. Q. 7010, 11731
Zhang, Z. S. 5547, 6707, 10136
Zhang, Z. X. 4881, 4892
Zhang, Z. Y. 2864, 10091
Zhao, C. J. 9363
Zhao, C. Z. 433, 6044, 10342, 10366
Zhao, F. 12499
Zhao, F. J. 8479, 8483
Zhao, F. W. 11317
Zhao, H. H. 5308
Zhao, J. 7034
Zhao, J. O. 4508
Zhao, J. P. 191
Zhao, J. X. 3321, 10954, 13141
Zhao, K. J. 9219
Zhao, K. N. 4218, 10361
Zhao, L. N. 2105, 2107
Zhao, L. Y. 5497
Zhao, M. Z. 8400
Zhao, Q. L. 5494
Zhao, R. L. 11731
Zhao, S. K. 6924
Zhao, S. X. 4903, 6707
Zhao, T. H. 10086
Zhao, W. C. 12484
Zhao, X. P. 3802
Zhao, X. Q. 6299
Zhao, Y. 1699, 7034, 11556, 13128
Zhao, Y. J. 418, 6984
Zhao, Y. X. 492
Zhao, Z. 8128, 9167
Zhao, Z. S. 8040
Zharkikh, A. 8629
Zhe, Y. S. 10129
Zhelev, N. Zh. 10126
Zhelev, R. 9389
Zhelnin, L. G. 2583
Zheltonozhskaya, L. V. 3873
Zhen, H. 10380
Zhen, H. Y. 12839
Zhen, X. P. 410, 4886
Zhen, X. S. 902
Zhen, Y. Y. 2103
Zhen, Z. 10808
Zheng, B. Z. 4340
Zheng, C. C. 4415, 8681
Zheng, D. H. 7944, 9135-9136
Zheng, D. S. 3587, 6440, 11295

Zheng, F. Q. 4885
Zheng, H. G. 2243
Zheng, H. Q. 1332
Zheng, H. Y. 504
Zheng, J. M. 6329
Zheng, J. Y. 8228
Zheng, K. 9204
Zheng, K. G. 3815
Zheng, K. L. 433, 1530, 9202
Zheng, L. 3838
Zheng, P. 7310
Zheng, R. F. 1616
Zheng, S. H. 11912
Zheng, S. J. 9740
Zheng, S. Q. 8397
Zheng, S. X. 8581
Zheng, X. J. 5850
Zheng, X. Q. 786, 902
Zheng, X. W. 3169
Zheng, X. Z. 1921
Zheng, Y. 3736
Zheng, Y. B. 13130
Zheng, Y. L. 11325
Zheng, Y. M. 657
Zheng, Y. Y. 10984
Zhigalkina, T. E. 4744
Zhirov, E. G. 254, 2548, 10096, 12572
Zhivotkov, L. A. 1256
Zhivotovskiĭ, L. A. 6682
Zhivotovsky, L. A. 6682
Zhong, G. 8795
Zhong, G. Y. 794, 8084, 9627-9628, 10811
Zhong, H. 3894
Zhong, H. C. 9196
Zhong, H. H. 7641
Zhong, H. S. 8005, 10354, 11564
Zhong, S. B. 2467
Zhong, W. G. 2734-2735, 9220
Zhong, Y. C. 11047
Zhong, Z. K. 10364
Zhong, Z. P. 1704
Zhong, Z. X. 6457, 8527
Zhou, A. N. 7010
Zhou, B. H. 9737, 12161
Zhou, B. L. 10978
Zhou, C. J. 685
Zhou, D. X. 1821
Zhou, D. Y. 6036
Zhou, F. 9552
Zhou, F. S. 4666
Zhou, G. F. 3836
Zhou, G. H. 1293, 2442
Zhou, G. Y. 1145, 1574, 6965
Zhou, H. 264, 12512
Zhou, H. Q. 3236
Zhou, J. 10028, 12469
Zhou, J. H. 5944
Zhou, J. T. 13056
Zhou, J. Y. 6604
Zhou, K. D. 3821
Zhou, K. L. 5318
Zhou, L. N. 13105
Zhou, M. D. 12927
Zhou, N. 200
Zhou, Q. M. 2751
Zhou, R. 6411, 12084
Zhou, R. H. 1279, 3580, 5479, 8063, 11624
Zhou, R. R. 6496
Zhou, R. Y. 12173, 13250
Zhou, S. T. 8400
Zhou, T. C. 1921
Zhou, T. L. 410, 4886
Zhou, W. J. 689
Zhou, X. 6474
Zhou, X. M. 2442, 4892
Zhou, X. N. 2866, 11720
Zhou, Y. B. 797
Zhou, Y. J. 12052
Zhou, Y. L. 8432
Zhou, Y. Q. 6029
Zhou, Y. S. 8019
Zhou, Z. 3803
Zhou, Z. Q. 9625, 10810
Zhu, B. C. 2779
Zhu, C. F. 12860
Zhu, D. 10237
Zhu, D. Y. 1576
Zhu, F. S. 4756
Zhu, G. 10985
Zhu, G. H. 3618
Zhu, J. C. 1706, 11720
Zhu, J. K. 3430
Zhu, J. S. 10850
Zhu, L. H. 3822, 12642, 12740
Zhu, M. Y. 282, 287
Zhu, Q. 11608
Zhu, S. J. 6520, 9749
Zhu, T. 1656
Zhu, X. D. 9205
Zhu, X. Y. 1570, 8028, 11499
Zhu, Y. 732, 7536, 10962
Zhu, Y. Y. 2771
Zhu, Z. 6968
Zhu, Z. D. 8772
Zhu, Z. Q. 7774
Zhu, Z. W. 436, 6049
Zhuang, B. C. 3946, 6991, 7087, 11721
Zhuang, B. H. 9206
Zhuang, J. 9204
Zhuang, J. Y. 9202
Zhuang, N. S. 405
Zhuang, Q. S. 2445, 3618
Zhuang, Z. C. 5479
Zhuk, I. P. 1845, 11896
Zhukov, O. S. 8403
Zhumanova, U. T. 10114
Zhuo, D. G. 10079
Zhuo, L. H. 9800
Židonytė, J. 2808
Ziegenhagen, B. 12221
Ziegler, H. 2074
Ziegler, K. E. 2701
Zieliński, J. 11989
Zietsman, P. C. 2184
Zijderveld, M. H. van 2617
Zijl, J. J. B. van 6249
Zijlstra, S. 7240
Zilberstein, A. 8725
Žilinskaitė, S. 2591, 2616
Zilkah, S. 4133
Zill, G. 13103
Zimback, L. 4272
Zimmer, E. A. 2400-2401, 11254
Zimmerman, J. L. 3555, 4015
Zimmerman, M. S. 3952
Zimmerman, R. H. 4127, 4516, 5224
Zimmerman, T. W. 11978
Zimmermann, M. J. O. 5016, 12881
Zimniak-Przybylska, Z. 538
Zimnoch-Guzowska, E. 8265
Zimny, J. 8987
Zinchenko, V. A. 4664
Zito, F. 1340
Zitzlsperger, J. 2995
Ziv, M. 8673
Zivy, M. 12215, 12612
Zlenko, V. A. 10791
Zobel, B. J. 2264
Zobel, R. W. 149, 1727
Žofajová, A. 2444, 2479
Zoglauer, K. 13322
Zohri, A. A. 10554
Zolotova, N. A. 10105
Zolotova, T. B. 12156
Zongo, J. D. 9169
Zope, J. S. 5076
Zora, D. 7117
Zorić, J. 4939
Zorinyants, S. E. 4708
Zote, K. K. 3978, 10546
Zou, H. 8128
Zou, J. S. 6982, 11580
Zou, J. T. 1401, 12406
Zou, Q. 4721
Zou, S. J. 12170
Zou, X. Y. 1584
Zou, Y. M. 10473
Zoundjihékpon, J. 12959
Zouros, E. 7667
Zrenner, R. 11192
Zseltonozskaya, L. V. 3873
Zsuffa, L. 2120, 2264, 3346
Zu, W. 10911
Zubair, M. 8229
Zuber, M. S. 12671
Zubko, D. G. 10216
Zubko, M. K. 1788, 5100
Zubr, J. 7186
Żubrowska-Gil, M. 984
Zuckerindustrie 5435
Zuev, V. V. 11265
Zuffrano, M. 13183
Zuilen, C. M. van 1064
Zuily-Fodil, Y. 12069, 13155
Zukalová, H. 5372
Zuloaga, F. 11533
Zuloaga, F. O. 470, 1646, 3904, 4936-4937, 5679, 6616
Zulpilip, T. 13399
Zungsontion, S. 11558
Zupan, J. R. 2319
Zupanec, J. 6615
Zur, M. 10455
Zur Nieden, U. 10674
Zurek, D. M. 6126, 8154
Zushun, M. 13151
Zwatz, B. 11292
Zwer, P. K. 2568, 3664, 8878, 8933, 8945, 11300
Zwierzykowski, Z. 11634
Zygadlo, J. A. 11275
Zykov, K. I. 8662
Zyprian, E. 4158

SUBJECT INDEX

- **1,4-α-Glucan branching enzyme,** *Solanum tuberosum,* molecular genetics 604
- ***Abelmoschus***
  - breeding 1876, 1889
  - diseases 1889
  - genetic resources 1871-1873, 1876-1878, 1881, 1888-1889
  - genetics, *Erysiphe cichoracearum* 10713
  - history 1878
  - interspecific hybridization 10713
  - pathogens 1888
  - pests 1889
  - stress 1888
  - taxonomy 1886-1887
- ***Abelmoschus caillei,*** genetic resources 1869
- ***Abelmoschus esculentus***
  - *Amrasca devastans* 11942
  - breeding 1870, 1880, 1889, 5219
  - combining ability, yield components 726, 10712
  - diseases 1889
  - *Earias vittella* 727
  - fruits 6290
  - gamma radiation 6292
  - gene banks 3102
  - genetic resources 135, 1868-1875, 1878, 1882, 1888-1889, 2259
    - databases 1879
  - genetics, *Erysiphe cichoracearum* 10713
  - germination 1883
  - hard seeds 1883
  - heritability, yield components 6291
  - heterosis, yield components 1884-1885
  - history 1878
  - induced mutations, fruits 6292
  - interspecific hybridization 10713
  - okra (bhendi) yellow vein mosaic bigeminivirus 5220, 8375, 13044
  - okra yellow vein mosaic bigeminivirus 1880
  - pathogens 1888, 7244
  - pests 1889, 7244
  - plant introduction 1882
  - stability 13043
  - storage, seeds 1883
  - stress 1888
- ***Abelmoschus manihot***
  - breeding 1880
  - okra yellow vein mosaic bigeminivirus 1880
- ***Abies***
  - colour, computer programming 12229
  - leaves 8644
  - ornamental value, computer programming 12229
  - tissue culture 7438
- ***Abies alba***
  - air pollution 13319
  - chemotaxonomy, monoterpenes 8645
  - chromosome number 5600
  - clines
    - isocitrate dehydrogenase 4378
    - isoenzymes 4378
  - genetic distance, isoenzymes 8643
  - genetic variation, isoenzymes 7492, 8643
  - genetics
    - isocitrate dehydrogenase 4378
    - isoenzymes 4378
  - molecular genetics 12221
  - pollen germination 13319
  - seed production 13319
  - temperature 4378
  - tissue culture 5600
- ***Abies borisii-regis,*** genetic variation, isoenzymes 7492
- ***Abies bornmuelleriana,*** genetic variation, isoenzymes 7492
- ***Abies cephalonica***
  - drought resistance 8646
  - genetic variation, isoenzymes 7492
  - germination 8646
  - leaves 8644
- ***Abies concolor***
  - chromosome number 5600
- ***Abies concolor*** *cont.*
  - interspecific hybridization 5600
  - tissue culture 5600
- ***Abies grandis***
  - chromosome number 5600
  - interspecific hybridization 5600
  - provenance trials 5599
  - tissue culture 5600
- ***Abies homolepis,*** heritability, yield components 9822
- ***Abies mariesii,*** genetic variation, isoenzymes 12222
- ***Abies nordmanniana***
  - cryopreservation 2147
  - *in vitro* culture 2147
- ***Abies pinsapo***
  - genetics, isoenzymes 7491
  - outcrossing 13318
  - shedding 13318
  - storage, pollen 13318
- **Abnormal development**
  - *Arabidopsis thaliana*
    - gene location 7643
    - induced mutations 7643, 11215
    - mutations 12417
  - *Arachis duranensis* 7359
  - *Arachis hypogaea* 7359
  - *Arachis stenosperma* 7359
  - *Corydalis cava* 11066
  - *Corydalis marschalliana* 11066
  - *Corydalis solida* 11066
  - *Helianthus annuus* 7343
  - *Lycopersicon esculentum,* mutations 11882
  - *Nicotiana glauca,* gene expression 12154
  - *Nicotiana langsdorffii,* gene expression 12154
  - *Oenothera erythrosepala,* mutations 12255
  - *Oenothera hookeri,* mutations 12255
  - *Theobroma cacao* 10924
  - *Ullucus tuberosus* 10632
- ***Abrus*** (×) ***Glycyrrhiza,*** protoplast fusion 12435
- **Abscisic acid** 7585
  - *Arabidopsis thaliana*
    - gene expression 3502, 4588, 6678, 7637, 8821
    - induced mutations 7651
    - mutations 146, 6678, 7637, 8818, 10029
    - nucleotide sequences 7630-7631
  - artificial selection, reviews 3474
  - *Avena sativa,* gene expression 155
  - *Brassica napus,* rape 4207
  - *Brassica oleracea,* cabbages 4207
  - *Bromus secalinus*
    - gene location 12520
    - molecular genetics 12520
  - *Craterostigma plantagineum,* gene expression 8669
  - crops 9960
  - *Dactylis glomerata* 3872
  - *Elymus elongatus,* gene mapping 7031
  - gene expression 1123, 10040
  - *Hordeum vulgare* 2611, 6828
    - gene expression 155, 268, 11384
  - *Lycopersicon esculentum,* mutations 146
  - *Nicotiana tabacum* 4207
    - gene expression 10856
    - genetic transformation 10856
  - *Oryza sativa* 9960
  - *Pennisetum glaucum* 9960
  - *Picea abies* 5596
  - *Picea mariana* 7489
  - *Pisum sativum* 11760
    - cell division 8191
    - embryo culture 8191
    - gene expression 5046
    - mutations 6178, 8193
    - nucleotide sequences 5046
  - *Triticum aestivum* 2485, 9960, 11322, 12514
    - combining ability 11346
- **Abscisic acid** *cont.*
  - *Triticum aestivum cont.*
    - gene expression 155, 3593, 8641
    - gene location 12520
    - gene mapping 7031
    - genetic engineering 8641
    - molecular genetics 12520
    - mutations 12523
  - *Zea mays* 9960
    - gene expression 324, 1420, 5974, 7919, 11453
    - mutations 146, 5974, 10253, 11453
    - pleiotropy 5974
- **Abscission**
  - gene expression 10036
  - *Glycine max*
    - gene expression 8155
    - nucleotide sequences 8155
  - *Gossypium hirsutum* 6516
  - *Juglans regia* 10828
  - *Lycopersicon esculentum,* gene mapping 7211
  - *Rubus* 10764
- ***Abutilon,*** genetic resources 7406
- ***Acacia***
  - amino acids 9795
  - chemotaxonomy 9795
  - chromosome number 978
  - DNA 978
  - interspecific hybridization 5554
  - provenance trials 4354
  - taxonomy 5556, 8613, 11003-11006
- ***Acacia albida,*** tissue culture 2122
- ***Acacia auriculiformis***
  - chromosome number 13278
  - experimental design 13277
  - fire effects 9796
  - interspecific hybridization 9793, 13278
  - outcrossing 5555
  - pollination 11002
  - provenance trials 7451, 9792, 13277
  - storage, pollen 11002
- ***Acacia cedilloi,*** taxonomy 8613
- ***Acacia confusa,*** nucleotide sequences, trypsin inhibitors 3349
- ***Acacia crassicarpa,*** provenance trials 9791
- ***Acacia holosericea,*** provenance trials 7451
- ***Acacia iteaphylla***
  - pollination 11002
  - storage, pollen 11002
- ***Acacia karroo***
  - pollination 11002
  - storage, pollen 11002
- ***Acacia mangium***
  - chromosome number 13278
  - interspecific hybridization 9793, 13278
  - pollination 11002
  - storage, pollen 11002
- ***Acacia masliniana,*** taxonomy 5557
- ***Acacia nilotica,*** stems 9794
- ***Acacia pedleyi,*** taxonomy 4355
- ***Acacia senegal,*** tissue culture 1061
- ***Acacia sulcata,*** taxonomy 5556
- ***Acacia tolmerensis,*** taxonomy 11003
- ***Acanthoscelides obtectus,*** *Cajanus cajan* 5068
- **ACC deaminase**
  - *Lycopersicon esculentum*
    - gene expression 673
    - genetic transformation 673
- **ACC oxidase**
  - *Malus pumila*
    - genetic engineering 732
    - genetic transformation 732
  - molecular genetics 3484
  - *Petunia hybrida,* nucleotide sequences 5648
  - *Phalaenopsis,* gene expression 3421
- **ACC synthase**
  - *Arabidopsis thaliana,* nucleotide sequences 3503
  - *Brassica juncea,* nucleotide sequences 7321
  - crops, molecular genetics 661

ACC synthase *cont.*
- *Cucurbita,* molecular genetics 661
- *Cucurbita pepo*
  - gene expression 6286
  - molecular genetics 6286
- *Lycopersicon esculentum*
  - gene expression 671, 6286
  - genetic engineering 10663
  - molecular genetics 661, 6286
  - mutations 10663
- molecular genetics 3484
- *Oryza sativa*
  - gene expression 444
  - molecular genetics 444

Acca sellowiana, anther culture 6332

Accessory chromosomes
- *Agropyron cristatum* 3884
- *Agropyron mongolicum* 3884
- *Allium schoenoprasum* 11859
- *Festuca* 11635
- *Hepatica nobilis* 5663
- *Pennisetum glaucum* 371-372
- *Secale cereale* 7869
  - backcrossing 12644
  - chromosome transmission 3697
  - gene mapping 2648
  - restriction fragment length polymorphism 2648
- *Zea mays* 319, 3736-3737, 4822, 9063
  - colour 7909
  - molecular genetics 3739

Acer
- cold resistance 9853
- pollen 9800
- taxonomy 9800
  - books 7575

Acer campestre, wood properties 12200

Acer platanoides, wood properties 12200

Acer pseudoplatanus
- tissue culture 12182
- wood properties 12200

Acer rubrum
- colour 13339
- *Empoasca fabae* 13339
- interspecific hybridization 13332
- random amplified polymorphic DNA, variety classification 13332
- varieties, Autumn Spire 9842

Acer saccharinum
- interspecific hybridization 13332
- random amplified polymorphic DNA, variety classification 13332

Acer saccharum
- air pollution 5522
- gene flow 7382
- genetic variation 10917
  - isoenzymes 2042-2043
- heterozygosity, stress 2043
- ozone 5522
- polymorphism, isoenzymes 7382
- population genetics 7382
- toxic substances 5522

Acetochlor, *Zea mays, in vitro* selection 12686

Acetohydroxy acid isomeroreductase
- *Spinacia oleracea*
  - gene expression 10647
  - genetic transformation 10647

Acetohydroxyacid synthase
- *Brassica napus*
  - rape
    - gene expression 12033
    - nucleotide sequences 12033

Acetolactate synthase
- *Arabidopsis thaliana*
  - induced mutations 10018
  - mutations 7656
  - recombination 7656
- *Nicotiana tabacum,* gene expression 908

Acetyl-CoA carboxylase
- *Arabidopsis thaliana*
  - gene expression 12400
  - nucleotide sequences 12400
- *Lolium multiflorum* 12791
- *Medicago sativa*
  - gene expression 10422
  - nucleotide sequences 10422
- *Triticum aestivum,* nucleotide sequences 4680
- *Zea mays* 3771
  - nucleotide sequences 4818

***N*-acetyl glucosaminyl transferase,** *Arabidopsis thaliana,* induced mutations 79

***O*-acetylserine (thiol) lyase,** *Spinacia oleracea,* molecular genetics 646

Achillea
- chromosome morphology 13394
- essential oils 13394

Achillea millefolium
- chemotaxonomy 4479
- flavonoids 4479
- morphology 11072
- taxonomy 11072

Acid invertase
- *Lycopersicon chmielewskii,* gene expression 4069
- *Lycopersicon esculentum,* gene expression 4069

Acid phosphatase
- *Citrus,* genetics 3175-3176
- *Citrus* × *Poncirus,* genetics 3176
- *Fortunella japonica,* genetics 3175
- *Glycine max,* gene expression 10465
- *Lolium boucheanum,* genetic variation 9251
- *Lolium multiflorum,* genetic variation 9251
- *Lolium perenne,* genetic variation 9251
- *Lupinus albus* 7065
- *Nicotiana tabacum*
  - gene expression 10465
  - genetic engineering 10465
- *Pennisetum* 6005
- *Pennisetum glaucum* 6005
- *Pisum sativum* 2908
- *Poncirus trifoliata,* genetics 3175
- *Prunus armeniaca* 3132
- *Vigna mungo,* genetic markers 1765
- *Vigna radiata,* genetic markers 1765

Acid protease, *Medicago sativa,* gene expression 1657

Acidic ribosomal phosphoprotein, *Oryza sativa,* nucleotide sequences 11561

Aconitum delphinifolium
- interspecific hybridization 5645
- taxonomy 5645

Aconitum krasnoboroffii, taxonomy 13389

Acorus calamus
- gene expression
  - alcohol dehydrogenase 2229
  - fructose-bisphosphate aldolase 2229
  - hypoxia 2229
  - pyruvate decarboxylase 2229

ACP synthase, *Hordeum vulgare,* molecular genetics 1343

Acremonium
- *Cucumis melo* 11905
- *Festuca arundinacea* 2788, 6069
- *Festuca pratensis* 6069
- *Festuca* × *Lolium* 2788
- grasses 3386
- *Lolium multiflorum* 2788
- *Lolium perenne* 2788
- *Psidium guajava, in vitro* selection 10818

Acremonium coenophialum, *Festuca arundinacea,* genotype environment interaction 6068

Acremonium strictum
- *Sorghum bicolor*
  - linkage 6948
  - random amplified polymorphic DNA 6948
  - restriction fragment length polymorphism 6948

Actin, *Avena sativa,* molecular genetics 5931

Actinidia
- breeding 5300
  - reviews 5301
- chloroplast genetics 9603
- ornamental value 5303
- polymerase chain reaction 9603
- varieties
  - Chongbai 5303
  - Jiangshanjiao 5303
  - Mantianxing 5303

Actinidia arguta
- ascorbic acid 7297
- breeding 7297
- cold resistance 5305
- genetic resources 6293
- interspecific hybridization 5305

Actinidia arguta *cont.*
- rootstocks 5305
- sugars 7297

Actinidia chinensis (*see also Actinidia deliciosa)*
- interspecific hybridization 8431

Actinidia deliciosa
- breeding 10796
- chromosome number 6314
- cold resistance 5305
- DNA 9604
- fruits 13090
- gene expression, cysteine proteinase 1909
- genetic engineering, cysteine proteinase 1909
- genetic transformation 4163, 12004
- grafting 7298
- interspecific hybridization 5303, 5305, 8431
- nuclei 9604
- nucleotide sequences
  - cysteine proteinase 1909
  - polygalacturonase 6312
- plant composition 9610, 13090
- pollen 9605, 10797
- pollination 5304, 9606-9608
- protoplasts 1910, 7298, 8432
- rootstocks 5305
- salinity 8434
- self compatibility 10796
- sex 9605
- somaclonal variation 8432
- tissue culture 6314, 9609
  - carbohydrates 8433
- variety trials 5302
- varieties
  - Hongyang 8431
  - Xiangzhou-83802 12003

Actinidia eriantha, interspecific hybridization 5303

Actinidia kolomikta
- ascorbic acid 7297
- breeding 7297
- sugars 7297
- tissue culture 6313

Acyl-acyl-carrier-protein desaturase
- *Brassica napus*
  - rape
    - gene expression 4213, 10836
    - nucleotide sequences 10836
- *Linum usitatissimum,* nucleotide sequences 9677
- *Nicotiana tabacum*
  - gene expression 10836
  - genetic transformation 10836

Acyl carrier protein
- *Arabidopsis thaliana*
  - mitochondrial genetics 10009
  - nucleotide sequences 10009

Acyl carrier protein thioesterase
- *Arabidopsis thaliana,* nucleotide sequences 5775
- *Brassica napus*
  - rape
    - gene expression 4205
    - nucleotide sequences 4205

Acyl-CoA desaturase
- *Arabidopsis thaliana*
  - gene expression 1154, 13232
  - genetic engineering 13232
  - genetic transformation 1154
  - induced mutations 1154
  - molecular genetics 1154, 13122
  - nucleotide sequences 11207
- *Brassica napus*
  - rape
    - gene expression 13122
    - genetic engineering 13122
    - molecular genetics 1154
    - nucleotide sequences 13122
- *Glycine max*
  - molecular genetics 1154
  - rape
    - gene expression 13122
    - nucleotide sequences 13122
- *Nicotiana tabacum*
  - gene expression 13232
  - genetic transformation 13232
- *Vigna radiata,* gene expression 11783

Acyrthosiphon kondoi, *Medicago sativa* 2836

- ***Acyrthosiphon pisum***
  - *Medicago sativa* 2836-2837, 11669
  - *Trifolium pratense* 9305
- **Adaptability** (*see* Stability)
- **Adenosinetriphosphatase**
  - *Arabidopsis thaliana*
    - gene expression 6671, 8811
    - gene mapping 8811
    - genetic engineering 6671
    - nucleotide sequences 6671, 8811
  - *Atriplex nummularia,* gene expression 3430, 3475
  - *Beta vulgaris*
    - sugarbeet
      - gene expression 9704
      - nucleotide sequences 9704
  - *Brassica napus*
    - rape
      - mitochondrial genetics 830
      - nucleotide sequences 1935
  - *Glycine max*
    - mitochondrial genetics 1698
    - molecular genetics 8144
    - nucleotide sequences 8144
  - *Hordeum vulgare,* nucleotide sequences 7839
  - *Lycopersicon esculentum,* genetics 6275
  - *Nicotiana plumbaginifolia*
    - gene expression 8540
    - genetic engineering 8540
  - *Nicotiana tabacum*
    - chloroplast genetics 12128
    - gene expression 2060, 3475, 6671, 10088, 12128
    - genetic transformation 2060, 6671, 10088
  - *Pisum sativum*
    - mitochondrial genetics 2905
    - nucleotide sequences 7108
  - *Raphanus sativus*
    - gene expression 5136
    - nucleotide sequences 5136
  - *Spinacia oleracea*
    - chloroplast genetics 10646
    - gene expression 10646
  - triticale, mitochondrial genetics 8991
  - *Triticum aestivum*
    - gene expression 2060, 10088
    - genetic engineering 2060, 10088
  - *Zea mays*
    - mitochondrial genetics 311
    - nucleotide sequences 12660
    - transposable elements 12660
- ***S*-adenosyl-L-homocysteine hydrolase,** *Triticum aestivum,* gene expression 11355
- **Adenosylhomocysteinase,** *Catharanthus roseus,* nucleotide sequences 9913
- **Adenosylmethionine decarboxylase**
  - *Nicotiana tabacum*
    - gene expression 8542
    - genetic transformation 8542
- **Adenosylmethionine synthetase**
  - *Lycopersicon esculentum*
    - gene expression 9548
    - nucleotide sequences 9548
  - *Populus interamericana,* nucleotide sequences 5538
- **5′-Adenylylphosphosulfate kinase,** *Arabidopsis thaliana,* nucleotide sequences 11208
- ***Adhatoda beddomei,*** tissue culture 4478
- ***Adiantum capillus-veneris***
  - aneuploidy 12281
  - chromosome aberrations 12281
  - gamma radiation 12281
  - molecular genetics
    - ribulose-bisphosphate carboxylase 8726
    - taxonomy 8726
  - nucleotide sequences
    - phytochrome 11095
    - ribulose-bisphosphate carboxylase 8726
- ***Adiantum diaphanum,*** taxonomy 4465
- **ADP-glucose pyrophosphorylase,** *Ipomoea batatas* 9485
- ***Aegilops***
  - anther culture 3626
  - anthers 7708
  - Aphidoidea 7828
  - chromosome morphology 6748
- ***Aegilops** cont.*
  - *Cochliobolus sativus* 7806
  - cold resistance 7784
  - DNA hybridization 10078
  - *Erysiphe graminis* 7828
  - esterases 6776
  - *Fusarium* 6776
  - gene banks 7690
  - gene mapping 7692
  - genetic distance 10078
  - genetic resources 2446, 7691, 7719, 7795, 7822-7823
    - databases 9263
  - genetics
    - hybrid chlorosis 3663
    - hybrid necrosis 3663
  - glutenins 7795
  - *Helminthosporium* 6776
  - inflorescences 7712
  - interspecific hybridization 2571
  - isoenzymes 6776, 7760
  - *Mayetiola destructor* 6805
  - *Metopolophium dirhodum* 11372
  - mitochondrial genetics, genomes 2571
  - molecular genetics 7824, 8881
  - outcrossing 7708
  - pathogens 7795
  - polymerase chain reaction 7824
  - *Puccinia* 7828
  - restriction fragment length polymorphism 7726, 8881
    - genomes 1286, 2571
  - *Rhopalosiphum padi* 11372
  - *Schizaphis graminum* 4750
  - seeds 7828
  - self pollination 7708
  - sexual reproduction 2477
  - *Sitobion avenae* 11372
  - taxonomy 7039, 7712, 7781, 7827
  - water balance 7758
  - yield components 7758
- ***Aegilops biuncialis***
  - *Erysiphe graminis* 7829
  - *Puccinia graminis* 7829
  - *Puccinia recondita* 7829
  - *Puccinia striiformis* 7829
- ***Aegilops cylindrica***
  - *Erysiphe graminis* 7829
  - *Puccinia graminis* 7829
  - *Puccinia recondita* 7829
  - *Puccinia striiformis* 7829
- ***Aegilops kotschyi,*** cytoplasmic male sterility 1284
- ***Aegilops longissima***
  - aneuploidy 7753
  - chloroplast genetics 7695
  - chromosome addition 2572
  - chromosome banding 2572
  - chromosome translocation 7753
  - mitochondrial genetics 7695
  - nucleocytoplasmic interaction 7753
  - restriction fragment length polymorphism 7695
- ***Aegilops markgrafii***
  - *Puccinia recondita* 7810
  - waxes 7810
- ***Aegilops ovata***
  - *Erysiphe graminis* 7829
  - *Puccinia graminis* 7829
  - *Puccinia recondita* 7829
  - *Puccinia striiformis* 7829
- ***Aegilops peregrina***
  - natural selection, esterases 6815
  - polymorphism, esterases 6815
- ***Aegilops searsii***
  - gene location 7825
  - gliadin 7825
  - glutenins 7825
- ***Aegilops speltoides***
  - chromosome morphology 6748
  - isoenzymes 7760
  - *Mycosphaerella graminicola* 11361
- ***Aegilops squarrosa***
  - anther culture 4709, 10113
  - centres of diversity 2573
  - chromosome morphology 6748
  - chromosome substitution 10113
  - clines 2573
  - cold resistance 7791
  - *Gaeumannomyces graminis* 2574
- ***Aegilops squarrosa** cont.*
  - gene location
    - chromosome pairing 12470
    - *Mayetiola destructor* 11369
  - gene mapping 181, 6813-6814, 7698-7703, 7734, 7739
    - *Heterodera avenae* 7831
  - genetic resources 7777
  - genetic transformation 2501
  - genetic variation
    - β-amylase 7826
    - esterases 7826
    - gliadin 7826
    - glucose-6-phosphate isomerase 7826
    - glutenins 7826
    - isoenzymes 2573
  - genetics, *Mayetiola destructor* 11369
  - gliadin 7777
  - glutenins 7777
  - heat resistance 7791
  - *Heterodera avenae* 5901
  - *in vitro* culture 2501
  - intergeneric hybridization 7707
  - interspecific hybridization 7707
  - isoenzymes 7760
  - *Leptosphaeria nodorum* 3655
  - linkage 6814, 7700-7701, 7739
  - *Mycosphaerella graminicola* 11361
  - *Pyrenophora tritici-repentis* 7830
  - random amplified polymorphic DNA, *Heterodera avenae* 7831
  - restriction fragment length polymorphism 1348, 6813-6814
    - *Heterodera avenae* 7793, 7831
  - salinity 5901
- ***Aegilops triaristata***
  - chromosome addition
    - *Puccinia graminis* 12583
    - *Puccinia recondita* 12583
  - *Erysiphe graminis* 7829
  - gene location
    - *Puccinia graminis* 12583
    - *Puccinia recondita* 12583
  - *Puccinia graminis* 7829
  - *Puccinia recondita* 7829
  - *Puccinia striiformis* 7829
- ***Aegilops triuncialis***
  - *Erysiphe graminis* 7829
  - mitochondrial genetics, genomes 2571
  - *Puccinia graminis* 7829
  - *Puccinia recondita* 7829
  - *Puccinia striiformis* 7829
  - restriction fragment length polymorphism, genomes 2571
- ***Aegilops uniaristata***
  - aneuploidy 7753
  - chromosome translocation 7753
  - nucleocytoplasmic interaction 7753
- ***Aegilops variabilis,*** cytoplasmic male sterility 1284
- ***Aegilops ventricosa***
  - chromosome substitution, α-amylase 10103
  - genetics, *Heterodera avenae* 4746
- ***Aegilops* × *Secale***
  - chromosome number 1382
  - chromosome pairing 1382
  - genetics
    - glutenins 2654
    - quality 2654
  - intergeneric hybridization 1382, 2654
  - meiosis 1382
  - mixoploidy 1382
  - tissue culture 1382
- ***Aegilops* × *Triticum***
  - chromosome addition 1281, 2572
    - aluminium 6763
    - brittleness 6763
    - *Pseudocercosporella herpotrichoides* 2532
    - *Puccinia graminis* 12583
    - *Puccinia recondita* 12583
    - toxic substances 6763
  - chromosome banding 2572, 12582
  - chromosome pairing 194, 12582
  - chromosome substitution 1281, 2548
    - aluminium 6763
    - brittleness 6763
    - toxic substances 6763
  - chromosome translocation 1281
    - haploidy 2473

Aegilops* × *Triticum *cont.*
  DNA hybridization 10078
  Erysiphe graminis 2535, 7796, 10133
  Fusarium 10133
  gene location
    chromosome pairing 12470
    Mayetiola destructor 11369
    Puccinia graminis 12583
    Puccinia recondita 12583
  genetic distance 10078
  genetic markers, quality 10115
  genetics
    chromosome pairing 3609, 7752
    colour 10096
    Erysiphe graminis 2548
    glumes 10096
    Heterodera avenae 4746
    Mayetiola destructor 11369
    plant hairs 10096
    spring and winter habit 10097
    waxes 10096
  genomes 12582
  germplasm releases
    Erysiphe graminis 10131
    wheat soilborne mosaic furovirus 10131
    wheat spindle streak mosaic bymovirus 10131
  inhibitor genes
    colour 10096
    glumes 10096
    plant hairs 10096
    waxes 10096
  intergeneric hybridization 194, 1281, 1284, 1299, 2461, 2532, 2535, 2548, 2559, 2572, 3609, 4682, 4698, 4746, 5871, 6763, 7752-7753, 7784, 7796, 7810, 7826, 7830, 8939, 10078, 10096-10097, 10115, 10131, 10133, 10138, 10140, 11369, 12470, 12496, 12501, 12582-12583
  Leptosphaeria nodorum 10133
  nitrate reductase 5871
  nitrogen 4698, 5871
  nucleocytoplasmic interaction
    haploidy 1284, 2473
    seeds 1299
    spring and winter habit 10097
    yield components 2461
  Pseudocercosporella herpotrichoides 2535
  Puccinia graminis 10138
  Puccinia recondita 2535, 2559, 7810, 10133
  Puccinia striiformis 2559
  Pyrenophora tritici-repentis 7830
  seeds 5871
  Tilletia indica 10140
  unreduced gametes 4682
  waxes 7810
Aegilotricum, genetic resources 7691
Aegle marmelos
  breeding 4192
  sexual reproduction 4192
  tissue culture 813, 10826, 13112
Aerides odoratum
  fertility 8710
  pollination 8710
Affonsea gereauana, taxonomy 11012
Aflatoxins, *Zea mays* 10296
African cassava mosaic bigeminivirus, *Manihot esculenta* 3022, 10621-10622
Agaricus
  polymorphism, isoenzymes 4502
  variety classification 4502
Agaricus bisporus
  colour 11125
  cytoplasmic inheritance 4494
  gene expression 13402
  gene mapping 1066
  heterokaryosis 13406
  heterosis 13405
  linkage 1066
    esterases 5683
    isoenzymes 5683
  mitochondrial genetics 2241, 4494
  molecular genetics 4491, 5681, 8748
    enzymes 4503
    glyceraldehyde-3-phosphate dehydrogenase 1064
Agaricus bisporus *cont.*
  nucleotide sequences 13401
  polymorphism, isoenzymes 1067
  protoplast fusion 5684
  quality 11125
  random amplified polymorphic DNA 6618
  variety trials 4489
Agaricus bitorquis
  colour 11125
  development 4506
  heat resistance 4510
  morphology 4506
  quality 11125
Agavaceae, genetic resources 13248
Agave, genetic resources 13248
Agave fourcroydes, genetic resources 13248
Agave sisalana, tissue culture 5512
Agglutinins, *Gossypium* 3328
Aging, *Solanum tuberosum* 10573
Agnesia lancifolia, taxonomy 5679
Agriculture, dictionaries 5703, 7576
Agrilus ruficollis, *Rubus,* blackberries 1900
Agrobacterium
  genetic transformation 5757, 12391, 12393
  molecular genetics 5757
  Vitis riparia 13087
  Vitis vinifera 13087
Agrobacterium rhizogenes
  crops, genetic transformation 1229
  genetic transformation 5758
  Larix laricina, genetic transformation 983
  Nicotiana glauca 10927
    nucleotide sequences 10927
  Nicotiana langsdorffii 10927
  Nicotiana tabacum
    gene expression 927, 10932
    genetic transformation 927, 5451, 7388, 10932
  Pinus banksiana, genetic transformation 983
  Pinus monticola, genetic transformation 983
  Solanum tuberosum, genetic transformation 5109
Agrobacterium tumefaciens
  Arabidopsis thaliana, genetic transformation 7624-7625
  Cydonia oblonga 5241
  gene expression 1147
  genetic transformation 1121, 1147-1149, 2319, 2321, 5756, 8800
  Glycine max
    genetic transformation 10490
    heritability 12864
  molecular genetics 1148-1149, 2319-2321, 5756
  Prunus besseyi 5248
  Prunus domestica 5248
  Prunus persica 8413
  Prunus salicina 5248
  Prunus spinosa 5248
  Pyrus communis 5241
  Solanum tuberosum, genetic transformation 7602
  Sorghum bicolor
    gene expression 2708
    genetic transformation 2708
  Vitis vinifera 3163
  Zea mays
    gene expression 2670
    genetic transformation 2670
Agrocybe aegerita
  gene expression, glycoproteins 4495
  genetic transformation, dihydroorotate dehydrogenase 7561
  genetics
    fructification 4498
    incompatibility 4496
    reproduction 4498
  haploidy 4495
  mitochondrial genetics 4492
  molecular genetics 2242, 4493
  mutations, pyrimidines 7561
  nuclei 4495
Agroforestry, *Gliricidia sepium* 12202
Agronomy
  Lolium perenne, multivariate analysis 8067
Agronomy *cont.*
  Saccharum officinarum 2017
Agropyron *(see also Elymus)*
  barley yellow dwarf luteovirus 2442, 11624
  Erysiphe graminis 11624
  genetic resources 7691
  prolamins 7754
  seeds 7754
Agropyron cristatum
  accessory chromosomes 3884
  aneuploidy 12796
  chromosome pairing 3884
  interspecific hybridization 3884
  polyploidy 10403
Agropyron desertorum
  artificial selection
    carbon 8075
    drought resistance 8075
  transpiration 4925
Agropyron mongolicum
  accessory chromosomes 3884
  chromosome pairing 3884
  interspecific hybridization 3884
Agropyron* × *Secale, intergeneric hybridization 2650
Agropyron* × *Secale* × *Triticum, intergeneric hybridization 4654
Agropyron* × *Triticum
  barley yellow dwarf luteovirus 2442
  chromosome pairing 191
  genetics, barley yellow dwarf luteovirus 12578
  intergeneric hybridization 170, 191, 1279, 12539, 12578
  self pollination 12539
  somaclonal variation 12539
  tissue culture 1279, 12539
Agrostis
  chromosome morphology 2810
  polymorphism, isoenzymes 9271
  variety classification, isoenzymes 9271
Agrostis alba
  genetic transformation 6070
  protoplasts 10408
Agrostis capillaris
  nitrogen 7019
  nutrients 7019
  stress 7019
Agrostis stolonifera
  artificial selection, drought resistance 3906
  chloroplast genetics, taxonomy 8062
  genetic transformation 3894
  heritability, drought resistance 3906
  protoplasts 10408
  restriction fragment length polymorphism, taxonomy 8062
  water balance 6072
  varieties
    Cobra 9858
    Putter 4412
Agrotis ipsilon
  Cicer arietinum 574
  Nicotiana tabacum, genetic transformation 5482
Aiouea grandifolia, taxonomy 8627
Aiouea longipetiolata, taxonomy 8627
Air pollution 2378, 11164
  Abies alba 13319
  Acer saccharum 5522
  Allium fistulosum 2378
  Fagus sylvatica 13269
  gene expression, reviews 1112
  Glycine max 10489
  Nicotiana plumbaginifolia, genetic transformation 6495
  Nicotiana tabacum 2074
    genetic transformation 8785
  Phaseolus vulgaris 3963
  Picea abies 7488
  Pinus strobus 5522
  Pinus sylvestris 2139
    heterozygosity 2140
  Pinus taeda, genetics 8638
  Populus tremuloides 5522, 5545-5546
  Triticum aestivum 10124
  Triticum durum 10124
  Vicia faba 5798
Alachlor
  Zea mays 352, 9168

- **Alachlor** *cont.*
  - *Zea mays cont.*
    - *in vitro* selection 12687
- **Alanine aminotransferase**
  - *Hordeum vulgare*
    - gene expression 6842
    - nucleotide sequences 6842
  - *Panicum miliaceum*
    - gene expression 6842
    - nucleotide sequences 6842
- **D-alanine transaminase**
  - *Lupinus angustifolius,* nucleotide sequences 11682
  - *Medicago sativa*
    - gene expression 11657
    - nucleotide sequences 11657
- ***Albizia,*** chromosome number 9799
- ***Albizia julibrissin,*** tissue culture 4358
- ***Albizia lebbeck,*** plant composition 9804
- ***Albugo candida***
  - *Arabidopsis thaliana*
    - gene location 1169
    - genetics 1169
  - *Brassica campestris*
    - sarson 8489, 12974
    - toria 8489
  - *Brassica carinata* 12974
  - *Brassica juncea* 8489, 9672, 12974
    - combining ability 10849
  - *Brassica napus* 8489, 9672
  - *Brassica oleracea* 12974
- ***Albugo occidentalis,*** *Spinacia oleracea* 10648
- **Albumins**
  - *Arabidopsis thaliana*
    - gene expression 7621
    - genetic engineering 7621
  - *Bertholletia excelsa*
    - gene expression 4199
    - genetic engineering 4199
  - *Cicer arietinum,* heterosis 1752
  - *Cucurbita,* molecular genetics 3093
  - *Medicago sativa*
    - gene expression 6107
    - genetic transformation 6107
  - *Nicotiana tabacum*
    - gene expression 2907, 4199, 6107
    - genetic transformation 2907, 4199, 6107
  - *Phaseolus acutifolius* 538
  - *Phaseolus coccineus* 538
  - *Phaseolus lunatus* 538
  - *Phaseolus vulgaris* 538
  - *Picea engelmannii,* gene expression 7485
  - *Picea glauca,* gene expression 7485
  - *Pisum sativum*
    - gene expression 2907, 4199
    - genetic engineering 2907
    - genetic transformation 4199
    - genetics 556
    - induced mutations 556
  - *Vicia faba*
    - gene expression 4199
    - genetic transformation 4199
  - *Vicia narbonensis*
    - gene expression 4199
    - genetic transformation 4199
  - *Zea mays* 7944, 9135-9136
- ***Alchemilla***
  - gene banks 4529
  - genetic resources 4529
- **Alcohol dehydrogenase**
  - *Acorus calamus,* gene expression 2229
  - evolution 4643
  - *Hibiscus* 960
  - *Lycopersicon esculentum*
    - genetics 5175
    - molecular genetics 1830
    - mutations 5175
  - *Nicotiana tabacum*
    - gene expression 1830
    - genetic transformation 1830
  - *Oryza sativa*
    - gene expression 10233
    - genetic transformation 10233
  - *Pennisetum glaucum,* nucleotide sequences 12699
  - *Petunia hybrida*
    - gene expression 2199
    - gene mapping 1014
    - molecular genetics 2199
- **Alcohol dehydrogenase** *cont.*
  - *Petunia hybrida cont.*
    - polymerase chain reaction 1014
  - *Picea abies,* nucleotide sequences 8639
  - *Triticum,* polymorphism 8899
  - *Zea,* evolution 4835
  - *Zea diploperennis*
    - multiple alleles 4835
    - recombination 4835
  - *Zea luxurians*
    - multiple alleles 4835
    - recombination 4835
  - *Zea mays*
    - gene expression 2199, 5985, 7881, 9148, 10233, 10236, 10288-10289, 10291
    - genetic engineering 10233
    - genetic transformation 5985
    - molecular genetics 2199, 7881
    - multiple alleles 4835
    - mutations 10241, 10289
    - recombination 4835
- **Aldehyde-lyases**
  - *Oryza sativa*
    - gene location 12724
    - linkage 12724
    - restriction fragment length polymorphism 12724
- ***Alexfloydia repens,*** taxonomy 2816
- **Alfalfa mosaic alfamovirus**
  - *Nicotiana tabacum*
    - gene expression 13235
    - genetic engineering 5472
    - genetic transformation 13235
  - *Trifolium repens*
    - combining ability 11679
    - genetic variance 11679
- ***Alhagi kirghisorum***
  - cell culture 5669
  - *in vitro* selection 5669
  - *N*-methyl-*N*-nitrosourea 5669
  - mutagens 5669
  - somaclonal variation 5669
- ***Alhagi pseudalhagi,*** chromosome morphology 489
- ***Alhagi sparsifolia,*** chromosome morphology 489
- **Alkaloids**
  - *Cyphanthera albicans* 1050
  - *Cyphanthera myosotidea* 1050
  - *Cyphanthera* × *Duboisia* 1050
  - *Cyphanthera* × *Grammosolen* 1050
  - *Datura,* genetic variance 7548
  - *Datura fastuosa* 4477
  - *Duboisia hopwoodii* 1050
  - *Duboisia myoporoides* 1050
  - *Duboisia* × *Grammosolen* 1050
  - *Ephedra* 1045
  - *Grammosolen dixonii* 1050
  - *Lupinus* 4978
  - *Lupinus albus* 4959, 7065, 12821
    - genetic variance 10441
  - *Lupinus angustifolius* 4959
  - *Lupinus luteus* 4959
  - *Lupinus polyphyllus* 4958
  - *Nepenthes sarawakiensis* 13381
  - *Papaver argemone* 5670
  - *Papaver californicum* 5670
  - *Papaver macrostomum* 5670
- **Alkanes**
  - *Pinus flexilis* 2136
  - Solanaceae 11275
- **Alleles** (*see* Genetics; Multiple alleles)
- **Allergens**
  - *Lolium,* molecular genetics 1627
  - *Sinapis alba,* nucleotide sequences 8490
  - *Zea mays,* nucleotide sequences 5956
- ***Allium***
  - breeding 9500
    - books 13415
  - centres of diversity 4026
  - embryo culture 633
  - gene banks 3037
  - genetic markers, isoenzymes, reviews 145
  - genetic resources 12966
    - reports 6248
  - genetics, books 13415
  - interspecific hybridization 10634
  - leaves 10638
  - ornamental value 10634
- ***Allium*** *cont.*
  - pectins 10638
  - *Peronospora destructor* 10638
  - phospholipids 10638
  - pollen, storage 633
  - quality, techniques 7196
  - somaclonal variation, chromosome aberrations 9504
  - taxonomy, books 13415
  - variety classification 145
- ***Allium ascalonicum***
  - breeding 4025
  - molecular genetics, lectins 632
  - sprouting 7193
  - tissue culture 7195
- ***Allium cepa***
  - *Alternaria porri* 3038, 3040, 9516
  - anatomy 5146
  - aroma 7197
  - bolting 5145
  - breeding 4025, 5140, 6247, 9497-9499
  - cell culture 11861
  - cell division 107, 4632, 7191, 8300
  - chromosome morphology 634
  - cytology 108
  - diseases 9516
  - DNA 9604
  - dormancy 9508-9509
  - ethylene 9505
  - flavour 9513
  - flowering 7192
  - fungicides 3038
  - gamma radiation 4027
  - gene expression 9505
  - genetic resources 6247, 7189, 9497-9498
  - genetic transformation 4820
  - genotype environment interaction, yield components 9515
  - growth regulators 9505, 9509
  - haploidy 4027
  - *Helicoverpa armigera* 11862
  - hybrid seed production 5141
  - interspecific hybridization 633, 5146, 10638, 11861
  - leaves 5146
  - male sterility 7192
  - molecular genetics
    - *Botrytis squamosa* 1817
    - lectins 632
    - *Peronospora destructor* 1817
  - nomenclature 9514
  - nuclei 9604
  - nucleolus 7191, 8850, 9505
  - nucleolus organizer 9505
  - nutrients 9513
  - *Peronospora destructor* 3038, 5146
  - photoperiodism 5144
  - pollination 5141
  - precocity 9501
  - quality 7197
    - techniques 7196
  - RNA 8850
  - roots 9508
  - seasonal growth 9502
  - sprouting 7193, 9508-9509
  - stomata 5146
  - sugars 7197
  - sulfur 9513
  - taxonomy 9514
  - *Thrips tabaci* 11862
  - tissue culture 638
  - variety trials 1816, 7190, 9501-9502
  - yield components 1816
  - yield correlations 7194
  - varieties 11267
    - Bola Precoce 9503
    - Crioula 9503
    - Juporanga 9503
    - Radium 6249
    - Rosada 9503
- ***Allium chinense,*** interspecific hybridization 633
- ***Allium fistulosum***
  - air pollution 2378
  - cell culture 11861
  - genetic distance, isoenzymes 12967
  - interspecific hybridization 633, 11861
  - nomenclature 9514
  - nucleolus 2378
  - polymorphism, isoenzymes 12967
  - radiation 2378

Allium fistulosum *cont.*
  somaclonal variation, chromosome aberrations 9504
  stress 2378
  taxonomy 9514
Allium giganteum, tissue culture 10636
Allium govanianum, tissue culture 12968
Allium longicuspis
  isoenzymes 636
  morphology 636
Allium nutans
  anatomy 5146
  interspecific hybridization 5146, 10638
  leaves 5146
  Peronospora destructor 5146
  stomata 5146
Allium porrum
  Alternaria porri 8301
  leek yellow stripe potyvirus 1069
  mitochondrial genetics, cytoplasmic male sterility 11181
  molecular genetics, lectins 632
  tissue culture 638
Allium roylei
  molecular genetics
    Botrytis squamosa 1817
    Peronospora destructor 1817
Allium sativum
  Alternaria porri 3039, 8302
  artificial selection
    bulbs 3036
    essential oils 11860
  breeding 3036, 4025
  DNA 5142
  essential oils 10637
  flowering 9510
  genetic distance, bulbs 9511
  isoenzymes 636
  molecular genetics, chitinase 8299
  morphology 636
  multivariate analysis, bulbs 9511
  somaclonal variation 5142
  Stemphylium vesicarium 8302
  tissue culture 7195, 9512
  variety trials 8298
Allium schoenoprasum
  accessory chromosomes 11859
  genetics, cytoplasmic male sterility 9507
  mitochondrial genetics, cytoplasmic male sterility 5143, 9507
  restriction fragment length polymorphism, cytoplasmic male sterility 5143
Allium senescens, tissue culture 637
Allium trifoliatum
  isoenzymes 12969
  male sterility 12969
  tissue culture 12969
Allium triquetrum
  chromosome disposition 9506
  chromosome pairing 9506
Allium tuberosum
  ovaries 635
  parthenocarpy 635
  tissue culture 9512
Allium victorialis
  pollen germination 10635
  storage, pollen 10635
Alloploidy (*see* Intergeneric hybridization; Interspecific hybridization; Polyploidy)
Alnus acuminata, genetic resources 9797
Alnus glutinosa
  gene expression
    Frankia 4361
    nodulation 4361
  interspecific hybridization 8615
  molecular genetics
    Frankia 4361
    nodulation 4361
  provenance trials 13279
Alnus incana, interspecific hybridization 8615
Alnus rubra, development 9803
Alocasia simonsiana, taxonomy 9496
Aloe
  cytology, DNA 12280
  nuclei, DNA 12280
Aloe barbadensis, somaclonal variation, DNA 3427
Aloe brachystachys, taxonomy 9906
Aloe schliebenii, taxonomy 9906
Alpinia purpurata, tissue culture 9928
Alstroemeria, tissue culture 7525
Alstroemeria isabellana, nomenclature 2207
Alternaria
  Brassica campestris, sarson, induced mutations 1941
  Brassica juncea, heritability 3207
Alternaria alternata
  Fragaria ananassa
    in vitro selection 3151, 13082
    somaclonal variation 11997
  Hordeum vulgare 10189
  Lycopersicon cheesmanii
    genetic variance 13017
    heritability 13017
  Lycopersicon esculentum 5186, 5188, 10680
    genetic variance 13017
    genetics 8347
    heritability 13017
    in vitro selection 3073, 13019
  Malus pumila 3118-3119
  Nicotiana tabacum 3296
  Pyrus pyrifolia 9581
  Solanum tuberosum 5109
  Triticum aestivum 7805
  Vicia faba 5015
  Zea mays 10680
Alternaria brassicae
  Brassica napus, rape 6352, 9674
  Cruciferae 8465
Alternaria dauci, Daucus carota, somaclonal variation 4016
Alternaria helianthi, *Helianthus annuus* 9681
Alternaria linicola, *Linum usitatissimum,* linseed 8493
Alternaria macrospora, *Gossypium hirsutum* 8580
Alternaria mali, *Malus pumila,* genetics 10729
Alternaria porri
  Allium cepa 3038, 3040, 9516
  Allium porrum 8301
  Allium sativum 3039, 8302
Alternaria solani
  Lycopersicon
    artificial selection 11894
    in vitro selection 11894
  Lycopersicon esculentum 3069, 5187
    artificial selection 11894
    in vitro selection 9552, 11894
  Solanum, tuberous species 6240
  Solanum tuberosum 8274, 10593, 11838
    heritability 6240
    in vitro selection 5113, 6241
Alternaria triticina, *Triticum aestivum* 3653
Alternative oxidase
  molecular genetics 12388
  Nicotiana tabacum
    gene expression 13225
    nucleotide sequences 13225
Altitude
  Beta vulgaris, sugarbeet 7377
  Glycine soja 11721
  Hordeum vulgare 4771, 12609
  Lupinus angustifolius 11686
  Medicago polymorpha 6081
  Picea abies, reciprocal effects 13313
  Zea mays 5950
Aluminium
  Aegilops × *Triticum*
    chromosome addition 6763
    chromosome substitution 6763
  cereals 10064
  Colocasia esculenta 9491-9492
  Eucalyptus calophylla, natural selection 9783
  Glycine max 4994, 12862
    multivariate analysis 12861
  Hordeum vulgare 4772
    in vitro selection 287
  Medicago sativa 9286, 9289
    combining ability 8105
  Oryza sativa 1593, 4895, 4897, 12754, 12758-12759
    in vitro selection 1242
  Phalaris aquatica, genetics 2820
  Secale cereale, heterosis 10065
  Sorghum bicolor 1485, 3777
  toxic substances, reviews 8784
Aluminium *cont.*
  Trifolium repens 4950, 7058
  Trifolium subterraneum 11676
  triticale 11356
    somaclonal variation 10065
  triticale × *Triticum,* chromosome translocation 8886
  Triticeae 12558
  Triticum aestivum 236, 2515-2516, 3651, 4722-4723, 4739, 6763, 7789, 10064, 10123, 11353, 11356, 12558
    artificial selection 2519
    chromosome translocation 8886
    gene expression 3646, 11355
    gene location 10065
    genetics 3644-3645
    germplasm releases 3647
    heritability 3650
    in vitro selection 3647
    molecular genetics 3646
  Triticum durum 3651, 10064, 11356
  Vigna unguiculata 12919
  Zea mays 343, 1462
    artificial selection 3762
Amaranthus
  breeding 5163
  chromosome number 1622
  herbicides 12053
  interspecific hybridization 1622
  meiosis 1622
  multivariate analysis 660
  triazines 12053
  yield components 660
Amaranthus caudatus, chromosome morphology 11617
Amaranthus cruentus
  chromosome morphology 11617
  molecular genetics 6055
Amaranthus hypochondriacus
  chromosome morphology 11617
  gene expression, photosynthesis 450
  nucleotide sequences, chlorophyll *a/b* binding protein 11616
Amaranthus mantegazzianus, chromosome morphology 11617
Amaryllis belladonna, tissue culture 5651
Amelanchier laevis, genetic transformation 4390
Amides
  Glycosmis mauritiana 12287
  Glycosmis pentaphylla 12287
Amino acid derivatives
  Glycine max, in vitro selection 11276
  Nicotiana tabacum, in vitro selection 5462, 11276
Amino acid permease
  Arabidopsis thaliana
    gene expression 3497
    nucleotide sequences 3497
Amino acids
  Acacia 9795
  Capsicum annuum 9559
  Citrullus lanatus 7238
  crops, molecular genetics 10056
  genetic transformation 11189
  Glycine max 517, 1710, 6138
  Helianthus 7347
  Medicago sativa 2830
  mutations 11189
  Pleurotus salmoneostramineus, mutations 6620
  Raphanus sativus 629
  Theobroma cacao 8539
  Trifolium pratense 12817
  Triticum aestivum, genetic transformation 4735
  Zea mays 9127, 12679
***P*-aminobenzoic acid,** *Hordeum vulgare* 2590
Aminoimidazole ribonucleotide synthetase
  Arabidopsis thaliana
    molecular genetics 10005
    nucleotide sequences 10005
Aminolevulinic acid
  Cucumis sativus
    chloroplast genetics 9563
    gene expression 9563
δ-Aminolevulinic acid dehydratase
  Glycine max
    gene expression 10470
    nucleotide sequences 10470

Aminopeptidases
  Hordeum vulgare
    gene mapping 7836
    restriction fragment length polymorphism 7836
Ammonium, *Arabidopsis thaliana,* mutations 73
Amoracia rusticana
  gene expression, peroxidases 11123
  genetic engineering, peroxidases 11123
Amphicarpaea bracteata, gene flow, *Synchytrium decipiens* 597
Amrasca biguttula biguttula
  Gossypium arboreum, sowing date 10981
  Gossypium hirsutum, sowing date 10981
Amrasca devastans
  Abelmoschus esculentus 11942
  Gossypium barbadense 4341
Amyelois transitella, *Juglans regia* 8458
Amygdalus *(see Prunus)*
α-Amylase, *Zea mays,* molecular genetics 6882
Amylase inhibitors
  Hordeum vulgare
    gene expression 1341
    gene location 1341
    nucleotide sequences 1341
  Lathyrus sativus 493
  Phaseolus vulgaris 543
  Triticum aestivum
    chromosome addition 12524
    genetic transformation 12524
α-Amylase
  Aegilops ventricosa, chromosome substitution 10103
  Avena sativa, gene expression 155
  genetic engineering, reviews 8803
  Hordeum 160
    restriction fragment length polymorphism 8957
  Hordeum spontaneum, restriction fragment length polymorphism 8957
  Hordeum vulgare 8963
    gene expression 155, 267, 3671, 11375
    gene location 8956
    gene mapping 7836
    genetic engineering 8803
    genetic transformation 11375
    molecular genetics 5906
    restriction fragment length polymorphism 7836, 8956-8957
  Ipomoea batatas 9487
  Oryza sativa
    gene expression 3805, 10359, 11565, 11588, 12714
    molecular genetics 10359
  Secale 296
  Secale cereale 160
  triticale 4798
  Triticum aestivum 160, 4697, 12521-12522
    chromosome substitution 10103
    gene expression 155, 8900
    gene location 11326
    pleiotropy 12527
  Triticum dicoccum, gene location 11326
  Triticum durum, gene location 11326
  Triticum timococcum, chromosome substitution 10103
  Triticum timopheevii, chromosome substitution 10103
  Vigna mungo, nucleotide sequences 8224
  Zea mays, nucleotide sequences 11432
α-Amylase inhibitor
  Hordeum spontaneum 6833
  Hordeum vulgare 6833
β-Amylase
  Aegilops squarrosa, genetic variation 7826
  Hordeum vulgare 8963
    linkage 1361
    nucleotide sequences 12593
  Ipomoea batatas 9487
    gene expression 11850
    molecular genetics 9484
    nucleotide sequences 11850
  Triticum aestivum 4697
Amylases
  Avena sativa 2431
  Eleusine coracana 2431
Amylases *cont.*
  Oryza sativa 2431
  Triticum aestivum 2431
  Zea mays 2431
Amylose
  Oryza sativa 1586, 6049, 11597, 12749
    genetic variance 6980
    genetics 12746
  Pisum sativum 11757
    backcrossing 12897
    genetics 12897
  Solanum tuberosum
    gene expression 6233
    genetic transformation 6233
  Triticum aestivum, genetics 3633
  Zea mays
    molecular genetics 3720
    mutations 3720
    transposable elements 3720
Anacardic acids, *Pelargonium hortorum* 4406
Anacardium occidentale
  clonal variation 10835
  combining ability 13098
  flowering 9656
  flowers 6337, 9656
  fruits 6335, 9656
  growth period 6337
  hermaphroditism 9656
  heterosis, yield components 6338
  pollination 13098
  tissue culture 8462
  variety trials 6334
  yield components 6336, 10835
  varieties
    Pattannur-1-1 9655
    Ullal-3 9654
Anadenanthera falcata
  pollination 13285
  self incompatibility 13285
Ananas comosus
  breeding 11268
  mycorrhizas 10812
  tissue culture 809
Anasa tristis, *Cucurbita* 3095
Anatomy 10051
  Allium cepa 5146
  Allium nutans 5146
  Brassica napus
    rape 6346
      combining ability 12043
      heterosis 12043
  Malus pumila 10724
  Nicotiana tabacum 13231
  Orchidaceae 9900
  Pinus 5581
  Quercus cerris 7444
  Quercus robur 7444
  Quercus rubra 7444
  Thladiantha 1867
  Triticum aestivum 210
  Zea mays 327
Androecium
  Eichhornia paniculata, genetics 9909
  Lythrum 13357
  Petunia hybrida 9882
  Prunus 741
  Secale cereale, mutations 294
  Tradescantia, induced mutations 12256
  Zea mays 3744
Andropogon gayanus, genetic resources 8085
Andropogon gerardii, polyploidy 468
Anemia phyllitidis
  gene expression
    binding proteins 6596
    ribulose-bisphosphate carboxylase 6596
    spores 6596
  molecular genetics, phytochrome 11096
  polymerase chain reaction, phytochrome 11096
Anemone, molecular genetics, taxonomy 13364
Anethum
  chromosome number 2217
  DNA 2217
Anethum graveolens, carvone 12300
Aneuploidy
  Adiantum capillus-veneris 12281
  Aegilops longissima 7753
Aneuploidy *cont.*
  Aegilops uniaristata 7753
  Agropyron cristatum 12796
  Asparagus officinalis 4047
  Avena byzantina 3687
  Brassica 9664
  Brassica campestris 9664
  Brassica oleracea 9664
  Bromus inermis 466
  Crepis capillaris 105
  Dasypyrum × *Triticum* 2460
  Dendranthema morifolium 1001
  Festuca × *Lolium* 11634
  Glycine max 7082
  Gossypium 6512
  Gossypium hirsutum 7411
  Hordeum vulgare 2592
  Pennisetum glaucum 6000
  Triticum aestivum 199-200, 12497
    height 5875
  Triticum durum 3606, 7753
  Zea mays 11450
Angelica archangelica
  chemotaxonomy 12301
  essential oils 12301
  fragrance 12301
Angelica dahurica, cell culture 12289
Angelica longeradiata, taxonomy 12302
Angelica sylvestris
  chemotaxonomy 12301
  essential oils 12301
  fragrance 12301
Angiosperms
  chemotaxonomy 7684
  chloroplast genetics
    evolution 2398-2400
    ribulose-bisphosphate carboxylase 2398-2400
    taxonomy 2398-2400
  chloroplasts 1203
  evolution 7677
    mathematics 12457-12458
  flowers 7672
  mitochondrial genetics, evolution 9977
  molecular genetics
    evolution 3561-3562
    glyceraldehyde-3-phosphate dehydrogenase 3562
  ovules 1204
  pollen, books 2269
  pollination, reviews 8851
  polyploidy 7677
  self incompatibility, books 2269
  sex 7672
  sexual reproduction 5804, 7673
    books 2269
  tannins 7684
Angolluma semitubiflora, taxonomy 9907
Aniba heterotepala, taxonomy 8627
Aniba pilosa, taxonomy 8627
Aniba vulcanicola, taxonomy 8627
Anigozanthos, varieties 13351
Anigozanthos manglesii, storage, pollen 9861
Annexins, *Medicago sativa,* nucleotide sequences 10421
Annona cherimola
  polymorphism, isoenzymes 8453
  tissue culture 4196
  variety classification, isoenzymes 8453
Annona muricata
  pollination 12022
  self compatibility 12022
  self pollination 12022
  tissue culture 5333
Annual habit
  Beta vulgaris, sugarbeet, gene expression 10909
  Carum carvi 9933
  Foeniculum vulgare 7554
Anodendron paniculatum, taxonomy 6527
Anoectochilus formosanus, tissue culture 7545, 12289
Anoxia
  Hordeum vulgare
    gene expression 6842, 8952
    nucleotide sequences 6842
  Panicum miliaceum
    gene expression 6842
    nucleotide sequences 6842

- **Anoxia** *cont.*
  - *Zea mays*
    - gene expression 5985, 10288-10289
    - genetic transformation 5985
    - mutations 10289
- ***Anthaenantiopsis fiebrigii,*** taxonomy 470
- ***Anthaenantiopsis perforata,*** taxonomy 470
- ***Anthaenantiopsis rojasiana,*** taxonomy 470
- ***Anthaenantiopsis trachystachya,*** taxonomy 470
- **Anther culture** 111
  - *Acca sellowiana* 6332
  - *Aegilops* 3626
  - *Aegilops squarrosa* 4709, 10113
  - *Asparagus officinalis* 658-659, 12986
  - *Azadirachta indica* 1055
  - *Brassica* 12029
  - *Brassica chinensis* 10642
  - *Brassica juncea* 4217, 12044
  - *Brassica napus,* rape 1215, 6347, 8475, 10839, 12038
  - *Brassica oleracea*
    - broccoli 4034-4035
    - cauliflowers 3043
  - *Brassica pekinensis* 12973
  - *Cajanus cajan* 5067
  - *Capsicum annuum* 4092
  - *Catharanthus roseus* 9919
  - *Cyclamen persicum* 1023
  - *Cynara scolymus* 5166
  - *Daucus carota* 10615
  - *Fagopyrum esculentum* 6054
  - *Fragaria ananassa* 7290
  - *Gossypium hirsutum* 5505
  - *Guizotia abyssinica* 3253
  - *Helianthus annuus* 4235, 5342
  - *Hordeum bulbosum* 10177
  - *Hordeum marinum* 10177
  - *Hordeum murinum* 10177, 12597
  - *Hordeum vulgare* 280, 2429, 2576, 2617, 3681, 5917, 11386, 12473, 12610
    - genetic markers 12612
  - *Hordeum* × *Triticum* 3578
  - *Lilium* 3420
  - *Linum usitatissimum,* linseed 3215, 5342
  - *Lolium perenne* 10398
  - *Lupinus albus* 7064
  - *Nicotiana rustica* 1215
  - *Nicotiana tabacum* 1215, 2064, 2070-2071, 4299, 5460, 6482, 8563
  - *Oryza sativa* 427-428, 431, 1572-1573, 1576-1577, 3839, 4892, 6045, 6969, 8030, 10376, 11285, 11594, 12745
    - economics 6043
    - genetic variance 432
    - heritability 4891
  - *Paeonia lactiflora* 11068
  - *Poncirus trifoliata* 1915
  - *Populus balsamifera* 9788
  - *Populus maximowiczii* 9788
  - *Populus trichocarpa* 9788
  - *Populus xiaohei* 2119
  - *Pyrus bretschneideri* 4130
  - *Rhododendron* 7505
  - *Secale* × *Triticum,* chromosome translocation 3625
  - *Sesamum indicum* 872
  - *Silene pratensis* 12253
  - *Solanum phureja* 8251
  - *Sorghum bicolor* 5993
  - triticale 1389, 2662-2663
  - triticale × *Triticum* 1389
  - *Triticum* 3626, 4709-4710, 10113, 11338
  - *Triticum aestivum* 220, 224, 1308-1310, 2429, 2448, 2469, 2471, 2502, 3577, 4692, 4733, 5878-5880, 7769, 8897, 8904, 8906, 10086-10087, 10112-10113, 11333, 11338, 12473, 12494
    - combining ability 222
    - genetic variance 222
    - reciprocal effects 2500
  - *Triticum dicoccoides* 4710
  - *Triticum durum* 5878, 11338
    - combining ability 8905
  - *Triticum monococcum* 2471
  - *Triticum turgidum* 7771
  - *Vitis vinifera* 777, 8428
  - *Zea mays* 306, 322, 335, 337-338, 1310, 1434, 3577, 6896, 7907, 7939, 9122-9123, 11467
- **Anther culture** *cont.*
  - *Zea mays cont.*
    - restriction fragment length polymorphism 1414
- **Anthers**
  - *Aegilops* 7708
  - *Arabidopsis thaliana*
    - genetic engineering 5363
    - induced mutations 11215
  - *Brassica campestris* 829
    - sarson 829
    - turnips 829
  - *Brassica juncea* 829
  - *Brassica napus*
    - rape
      - gene expression 5363
      - genetic transformation 5363
  - *Brassica oleracea*
    - gene expression 3042
    - cauliflowers 829
  - *Citrus* 799
  - gene expression 2384
  - *Helianthus annuus*
    - gene expression 10859
    - mitochondrial genetics 10859
    - nucleotide sequences 13143
  - *Hordeum* 7708
  - *Ipomoea horsfalliae* 10625
  - *Lilium longiflorum* 2208
  - *Lycopersicon esculentum*
    - gene expression 1828
    - nucleotide sequences 1828
  - molecular genetics 1196
  - *Nicotiana tabacum*
    - gene expression 2384, 9718
    - mutations 10936
    - nucleotide sequences 9718
  - *Oryza rufipogon* 383
  - *Oryza sativa* 418
    - dominance 411
  - *Petunia,* molecular genetics 2198
  - *Raphanus sativus* 829
  - *Secale* 7708
  - *Sinapis alba*
    - gene expression 9676
    - molecular genetics 842, 9676
  - triticale 10213
  - *Triticum aestivum* 11317
  - *Zea mays*
    - genetics 11451
    - linkage 11451
- **Anthesis** (*see* Flowering)
- **Anthocyanidins**
  - *Hordeum vulgare,* mutations 12616
  - *Pinus sylvestris* 2132
  - *Pinus uncinata* 2132
  - *Rosa,* genetics 8662
  - *Vitis vinifera* 3161
- **Anthocyanins**
  - *Antirrhinum,* gene expression 4423
  - *Antirrhinum majus* 11075
    - gene expression 4439
  - *Arabidopsis thaliana*
    - gene expression 5779, 12421
    - gene mapping 12421
    - mutations 5779, 12421
    - nucleotide sequences 5779
  - *Camellia,* evolution 11044
  - *Doritis pulcherrima*
    - genetic transformation 13374
    - mutations 13374
  - genetic engineering 1237
  - genetics 1237
  - *Gossypium hirsutum,* genetics 3323
  - *Hordeum vulgare*
    - genetics 3678
    - mutations 2615, 3678
  - *Iris ensata* 9884
  - *Lycopersicon esculentum*
    - gene expression 13003
    - genetic transformation 13003
    - mutations 13003
  - *Oryza sativa*
    - genetics 11587
    - linkage 11587
  - *Petunia,* gene expression 4423
  - *Petunia hybrida* 8663
    - gene expression 4439
  - *Phaseolus vulgaris*
    - gene expression 2890, 8174
    - mutations 8174
- **Anthocyanins** *cont.*
  - *Rosa,* molecular genetics 8663
  - *Solanum melongena,* gene expression 4077
  - *Solanum tuberosum*
    - *in vitro* selection 5100
    - induced mutations 1788
  - *Vitis vinifera* 781, 3161, 5288
    - *in vitro* selection 5292
    - somaclonal variation 5292
  - *Zea mays*
    - gene expression 3712, 3722, 3749-3750, 4439, 5833, 5974, 7882, 10235, 11461
    - genetic engineering 10239
    - genetic transformation 7882, 10239
    - genetics 2675, 9101-9103
    - molecular genetics 2675, 3712, 3717, 5961, 10235
    - multiple alleles 3750
    - mutations 2675, 3717, 5974, 7932, 11461
    - nucleotide sequences 3722, 3749, 10235
    - pleiotropy 5974
    - transposable elements 9101
- ***Anthonomus grandis***
  - *Gossypium hirsutum* 9753
    - germplasm releases 9758
- ***Anthoxanthum,*** taxonomy 8095
- ***Anthoxanthum odoratum***
  - nitrogen 7019
  - nutrients 7019
  - stress 7019
- **Anthranilate synthase**
  - *Arabidopsis thaliana*
    - gene expression 71
    - mutations 71
- ***Anthurium***
  - chromosome morphology 2179
  - cytotaxonomy 2179
- **Antibiotics**
  - *Solanum nigrum*
    - chloroplast genetics 7540
    - cytoplasmic inheritance 7540
    - induced mutations 7540
- **Antibodies**
  - *Nicotiana benthamiana,* genetic transformation 5470
  - *Nicotiana tabacum*
    - gene expression 3277
    - genetic transformation 3277, 4293
- **Antioxidants**
  - *Gossypium hirsutum* 9751
  - *Lycopersicon esculentum* 678
  - *Lycopersicon hirsutum* 678
  - *Sesamum indicum* 1993
  - *Triticum aestivum* 4699
- ***Antirrhinum***
  - gene expression
    - anthocyanins 4423
    - colour 4423
    - development 3408-3409
    - flowers 3408-3409, 4423
    - naringenin-chalcone synthase 4423
  - genetics, flowering 1160
- ***Antirrhinum majus***
  - anthocyanins 11075
  - evolution, flowers 7520
  - gene expression
    - anthocyanins 4439
    - cell division 8696
    - colour 4436
    - development 5833
    - flavonoids 4435
    - flowering 5833
    - flowers 4436, 8697
    - naringenin-chalcone synthase 4436
    - proteins 1013
  - genetics, flowers 2196
  - glycosides 11075
  - induced mutations
    - colour 6580
    - flowers 6580
    - *Puccinia antirrhini* 3410
  - molecular genetics
    - chlorophyll 3407
    - flowers 6581
    - proteins 1013
    - self incompatibility 3406

Antirrhinum majus *cont.*
- mutations
  - colour 12261
  - epidermis 12261
  - flowers 6581, 12261
- nucleotide sequences
  - colour 12261
  - epidermis 12261
  - flowers 12261
- transposable elements 1404, 6579-6580
  - colour 4436
  - flowers 4436
  - naringenin-chalcone synthase 4436
  - *Puccinia antirrhini* 3411
  - self incompatibility 3406

Aphanomyces euteiches
- *Pisum sativum* 7118, 9405
  - artificial selection 2914

Aphidoidea
- *Aegilops* 7828
- *Humulus lupulus* 12303
- *Lactuca sativa* 9529

Aphis craccivora, *Vigna unguiculata* 3983

Aphis gossypii
- *Cucumis melo* 1858, 5209
- *Gossypium* 3331, 4340
- *Gossypium hirsutum* 9756-9757

Apiocarpella *(see also Ascochyta)*

Apion godmani, *Phaseolus vulgaris* 2901

Apios americana, pollination 5138

Apis
- *Guizotia abyssinica* 10894
- *Helianthus annuus* 7336
- *Helianthus petiolaris* 7336

Apium graveolens
- breeding 4041
- ethyl methanesulfonate 6258
- furanocoumarins 649
- gamma radiation 6257
- genetic resources 4041
- germplasm releases, *Fusarium oxysporum* 4043
- induced mutations
  - growth period 6257
  - height 6258
- molecular genetics 4041
- mutagens 6258
- *Septoria apiicola* 9525
- *Spodoptera exigua* 649-650, 9526-9527, 10649
- *Trichoplusia ni* 9526, 10649
- variety trials 11870-11871
- varieties, Florida Slobolt M68 4042

Apium nodiflorum, *Spodoptera exigua* 650

Apium prostratum, *Spodoptera exigua* 650

Apoaequorin
- *Nicotiana plumbaginifolia*
  - gene expression 1143
  - genetic transformation 1143

Apocheimia cinerarius, *Populus nigra,* genetic transformation 5549

Apocytochrome *b*
- *Arabidopsis thaliana*
  - gene expression 62
  - mitochondrial genetics 62
- *Oryza sativa,* mitochondrial genetics 392
- *Solanum*
  - gene expression 142
  - mitochondrial genetics 142
- *Triticum*
  - gene expression 142
  - mitochondrial genetics 142

Apomixis 1144, 3552, 6701
- *Eleusine* 4931
- *Elymus rectisetus,* genetics 1213
- *Eragrostis* 4931
- *Eragrostis curvula* 9270
- genetic engineering 6667
- history 2382
- *Lamprothyrsus,* evolution 469
- *Malus hupehensis* 735
- *Malus scheideckeri* 735
- *Panicum infestum* 367
  - genetics 9185
- *Panicum maximum* 367
  - genetics 1213, 9185
- *Panicum trichocladum* 367
  - genetics 9185
- *Pennisetum flaccidum* 6958
- *Pennisetum mezianum* 6958
- *Poa pratensis* 9247

Apomixis *cont.*
- *Poa pratensis cont.*
  - random amplified polymorphic DNA 8064
- *Ranunculus auricomus,* genetics 1213
- reviews 116, 1202, 1213
- *Solanum,* tuberous species 1782
- *Sorbus* 7453
- *Themeda triandra* 1641
- *Tripsacum dactyloides* 12688

Apostasia, taxonomy 9899

Apple chlorotic leafspot virus, *Prunus,* plums 3139

Apple mosaic ilarvirus
- *Malus pumila* 3115
- *Prunus,* plums 8399
- *Prunus armeniaca* 8399
- *Prunus dulcis* 3182
- *Prunus persica* 8399

Aproaerema modicella, *Arachis hypogaea* 3250

Arabidopsis
- molecular genetics 5777
  - ribosomal DNA 1151

Arabidopsis thaliana
- chromosome morphology 11213
- complementation
  - chlorophyll 6676
  - glutamate 1-semialdehyde 2,1-aminomutase 6676
  - glutamine tRNA reductase 6676
  - organelles 4581
- development 1164, 11214
- DNA hybridization 10006
  - polyploidy 1159
- dormancy 5784
- embryo sac 11214
- epistasis
  - development 10020-10021
  - light 10020-10021
- ethyl methanesulfonate 79, 81, 2361, 4594, 5783, 5788, 7636, 7643, 7646, 7652, 10014, 10018, 11211, 11215, 12422
- ethylene 1164
- evolution
  - flowers 7520
  - ribonucleases 4582
  - senescence 4582
- gamma radiation 7651
- gene expression 3501, 4579, 5770, 7607, 11209, 11225, 12410
  - abscisic acid 3502, 4588, 6678, 7637, 8821
  - acetyl-CoA carboxylase 12400
  - acyl-CoA desaturase 1154, 13232
  - adenosinetriphosphatase 6671, 8811
  - albumins 7621
  - amino acid permease 3497
  - anthocyanins 5779, 12421
  - anthranilate synthase 71
  - apocytochrome *b* 62
  - auxins 3512
  - binding proteins 1155
  - carbonate dehydratase 12401
  - catalase 7641
  - cell division 3513, 9911, 10017
  - chaperonins 4591
  - chitinase 12423
  - chlorophyll 6676
  - chlorophyll *a/b* binding protein 2356, 7650, 10027, 12397
  - chloroplasts 8811
  - cold 3502, 5785, 7654, 7659, 12409
  - cold resistance 6678, 10029, 13232
  - coronatine 10030
  - cysteine proteinase 7660
  - cytokinins 7644
  - desiccation 3509
  - development 74, 393, 2359, 3408-3409, 3518, 5833, 7648, 10019-10021, 10030, 11222, 12404, 12419, 12421
  - diseases 5742
  - DNA photolyases 3512
  - drought 7659
  - epoxide hydrolase 11205
  - ethylene 3512, 10031, 12414
  - flowering 5780, 5833
  - flowers 2359, 3408-3409, 7648, 12404

Arabidopsis thaliana *cont.*
- gene expression *cont.*
  - β-glucanase 4203
  - glutamate-ammonia ligase 11219
  - glutamate 1-semialdehyde 2,1-aminomutase 6676
  - glutamine tRNA reductase 6676
  - glutathione reductase 10012
  - glyceraldehyde-3-phosphate dehydrogenase 5778, 10011
  - growth regulators 3502, 3512, 6678, 7647
  - GTP-binding proteins 3508, 3526
  - heat shock proteins 7655, 8813, 11224
  - heavy metals 10028
  - *Heterodera schachtii* 3531
  - histones 12398
  - imidazoleglycerol-phosphate dehydratase 12399
  - injuries 7658
  - leaves 11222
  - leucyl aminopeptidase 11206
  - light 74, 3512, 3518, 4588, 7644, 10020-10021, 12421
  - lipid transfer proteins 10010
  - lipids 12416
  - lipoxygenase 5768, 10026, 12407
  - male sterility 10030
  - mechanical damage 83
  - *Meloidogyne incognita* 3531
  - metallothionein 10028
  - methyl jasmonate 10030
  - monosaccharide-H^+ symporter 11204
  - nitrate reductase 78
  - nitrates 5789
  - nucleotide sequences
    - DNA binding proteins 11110
    - light 10000
    - pathogenesis-related proteins 11110
  - nutrients 3523, 5789
  - oleosins 8812
  - organelles 4581
  - ovules 7642
  - pathogenesis-related proteins 8822, 10031, 12423
  - *Peronospora parasitica* 10031
  - peroxidases 3511
  - phenylalanine ammonia-lyase 11227
  - phosphates 3523
  - phosphatidylcholine desaturase 5781
  - photosynthesis 7650
  - phytochrome 72, 3285, 4595, 5771, 7639, 10022, 10025, 11200
  - plant embryos 10019
  - plant hairs 3510, 12415, 12419
  - plastocyanins 3520
  - pollen 4593, 8330
  - protein kinase 67, 2352, 3513, 4580, 10017, 11201
  - proteins 12416, 12420
  - *Pseudomonas solanacearum* 11227
  - *Pseudomonas syringae* 2362, 10030
  - pyrroline-5-carboxylate reductase 3528
  - ribosomes 62
  - ribulose-bisphosphate carboxylase 1161, 7650
  - salinity 3509, 3528
  - seeds 7637, 8812, 12416
  - senescence 11219
  - stress 3509, 3512, 6680, 8821
  - sucrose transporter 10004
  - sulfate adenylyltransferase 12411
  - techniques 6672
  - thiol protease 8821
  - translocation 3523
  - transposable elements 1158, 6579, 7634
  - transposase 7634
  - tryptophan 71
  - tryptophan synthase β 58
  - tubulin 1153
  - ubiquitin 12402
  - water balance 11217
  - *Xanthomonas campestris* 8822
- gene location
  - abnormal development 7643
  - *Albugo candida* 1169
  - dormancy 7643

Arabidopsis thaliana *cont.*
- gene location *cont.*
  - flowering 3525
  - *Peronospora parasitica* 1169, 3530
  - seeds 7643
  - vernalization 3525
- gene mapping 61, 64, 1156, 2351, 5769, 5774, 7616, 11228, 12405
  - adenosinetriphosphatase 8811
  - anthocyanins 12421
  - calcium binding proteins 8811
  - chloroplasts 8811
  - development 12421
  - growth period 7649
  - light 12421
  - *Pseudomonas syringae* 3529
  - transposable elements 2353
- genetic engineering 4579, 11209
  - acyl-CoA desaturase 13232
  - adenosinetriphosphatase 6671
  - albumins 7621
  - anthers 5363
  - chaperonins 4591
  - chlorophyll *a/b* binding protein 2356
  - cold resistance 13232
  - epoxide hydrolase 11205
  - fertility 5363
  - glyceraldehyde-3-phosphate dehydrogenase 10011
  - heat shock proteins 8813
  - histones 12398
  - lipids 12382
  - lipoxygenase 12407
  - monosaccharide-H^+ symporter 11204
  - oleosins 8812
  - peroxidases 3511
  - phenylalanine ammonia-lyase 11227
  - phytochrome 4595
  - plastocyanins 3520
  - pollen 4593
  - *Pseudomonas solanacearum* 11227
  - source sink relations 7686
  - sucrose transporter 10004
  - water balance 11217
- genetic markers
  - herpes simplex virus 7619
  - plant embryos 7633
  - thymidine kinase 7619
- genetic transformation 82, 3499, 3506, 3531, 5770, 6674, 7622, 7633, 11209, 11225, 12410, 12413
  - acyl-CoA desaturase 1154
  - *Agrobacterium tumefaciens* 7624-7625
  - cell division 9911
  - cold 5785
  - β-conglycinin 8147
  - cytochrome P-450 8733
  - cytosine deaminase 3498
  - development 393, 5782, 7648
  - flowers 7648
  - heat shock proteins 7655
  - herpes simplex virus 7619
  - histones 12398
  - leucyl aminopeptidase 11206
  - lipid transfer proteins 10010
  - phytochrome 3285, 4595, 7639, 10022
  - phytohaemagglutinin 79
  - plant embryos 3524
  - pollen 7635, 8330
  - ribulose-bisphosphate carboxylase 1161
  - thymidine kinase 7619
  - transposable elements 2353, 3505, 6579
  - tryptophan synthase β 58
  - tubulin 1153
- genetics
  - *Albugo candida* 1169
  - development 7648
  - diseases 11226
  - embryology 1163
  - flowering 1160, 1238
  - flowers 7648
  - gibberellins 69
  - glucosinolates 9667
  - growth period 7649
  - growth regulators 69
  - methionine 7640
  - nomenclature 10013

Arabidopsis thaliana *cont.*
- genetics *cont.*
  - *Peronospora parasitica* 1169, 3530, 5786, 7231, 11229
  - phytochrome 10013
  - plant embryos 1163
  - plant hairs 8817
  - pollen 7635
  - *Pseudomonas syringae* 1167-1168, 3529
  - shoots 12422
  - temperature 12422
  - transposable elements 3505
  - *Xanthomonas campestris* 5786
- germination 5784
- heat shock proteins 11225
- immunology, leucyl aminopeptidase 11206
- induced mutations 2355, 3506, 10015-10016, 12412
  - abnormal development 7643, 11215
  - abscisic acid 7651
  - acetolactate synthase 10018
  - *N*-acetyl glucosaminyl transferase 79
  - acyl-CoA desaturase 1154
  - anthers 11215
  - chloroplasts 5783, 7646
  - colour 8815
  - coronatine 10030
  - cytochrome *f* 4594
  - desiccation 81
  - development 5782, 10030
  - dormancy 7643
  - fatty acids 7652
  - fusicoccin 2361
  - gamma radiation 10014
  - glycans 79
  - growth regulators 7651
  - lipids 7652
  - male sterility 7636, 10030, 11215
  - *Meloidogyne incognita* 5788
  - methyl jasmonate 10030
  - nucleocytoplasmic interaction 11211
  - photosynthesis 4594
  - plant embryos 3524
  - pollen 11215
  - *Pseudomonas syringae* 10030
  - seeds 81, 7643
  - shoots 12422
  - temperature 12422
  - valine 10018
- lead nitrate 10015
- leaves 3522
- mitochondrial genetics 10001, 12405
  - acyl carrier protein 10009
  - apocytochrome *b* 62
  - ribosomes 62
- mixoploidy 3514
- molecular genetics 63, 3500-3501, 5773, 7607, 11209-11210, 11212, 11223
  - acyl-CoA desaturase 1154, 13122
  - aminoimidazole ribonucleotide synthetase 10005
  - auxins 3512
  - binding proteins 1155, 7623
  - calcium binding proteins 59
  - calnexin 3527
  - cell division 10017
  - cyclophilin 12403
  - development 1162
  - DNA binding proteins 60, 65
  - DNA photolyases 3512
  - embryology 1162
  - enzymes 66
  - ethylene 76, 3512
  - flowering 2358
  - β-glucanase 5776
  - glucose-6-phosphate isomerase 3391
  - glycinamide ribonucleotide transformylase 10005
  - growth regulators 76, 3512, 7647
  - light 3512
  - lipids 12382
  - myosin 10008
  - nutrients 3523
  - phosphates 3523
  - phosphoribosylamine-glycine ligase 10005
  - plant embryos 1162
  - plant hairs 8816
  - protein kinase 67, 4580, 10017

Arabidopsis thaliana *cont.*
- molecular genetics *cont.*
  - proteinases 3504
  - *Pseudomonas syringae* 1166, 4596, 5787
  - pyrroline-5-carboxylate reductase 3528
  - ribonucleases 4582
  - salinity 3528
  - senescence 4582
  - stress 3512
  - translocation 3523
  - transposable elements 1158
  - tubulin 6673
  - turnip crinkle carmovirus 7661
- multiple alleles
  - light 10000
  - nomenclature 10013
  - phytochrome 10013
- mutagens 79, 81, 2361, 4594, 5783, 5788, 7636, 7643, 7646, 7652, 10014-10016, 10018, 11211, 11215, 12422
- mutations
  - abnormal development 12417
  - abscisic acid 146, 6678, 7637, 8818, 10029
  - acetolactate synthase 7656
  - ammonium 73
  - anthocyanins 5779, 12421
  - anthranilate synthase 71
  - carotenoids 11216
  - chlorates 5789
  - chlorophyll *a/b* binding protein 7650
  - cold resistance 6678
  - cytokinins 3519, 7644
  - development 74, 1162, 3518-3519, 3521, 10019-10021, 10372, 11221-11222, 12418-12419, 12421
  - diseases 5742, 11226
  - drought resistance 7657
  - embryology 1162-1163
  - ethylene 76, 12414
  - fertility 3515
  - flowering 2358, 3517, 3519, 8820, 10024, 10372
  - flowers 11218
  - gamma radiation 6675
  - germination 7645
  - gibberellic acid 5784, 8820
  - gibberellins 69
  - growth regulators 69, 76, 144, 146, 3519, 5784, 6678, 7657
  - height 12417
  - herbicides 5789, 7656
  - IAA 8814
  - leaves 11222, 12417
  - light 74, 3517-3518, 7644, 8819, 10000, 10020-10021, 12421
  - lipids 12416
  - male sterility 3515
  - methionine 7640
  - ovules 7642
  - photosynthesis 7650
  - phytochrome 72, 80, 2357, 2360, 5771, 6677, 7639, 7645, 10023-10025, 11220
  - *Phytophthora megasperma* 1165
  - plant embryos 75, 1162-1163, 3550, 10019, 12418
  - plant hairs 4592, 8816-8817, 12415, 12419
  - pollen 68, 7635
  - pollen germination 3516
  - proteins 12416, 12420
  - *Pseudomonas syringae* 1165-1168, 2362, 5787
  - ribulose-bisphosphate carboxylase 7650
  - roots 73, 3521, 11221
  - seedlings 12418
  - seeds 7645, 12416
  - shoots 3516
  - stearic acid 12417
  - techniques 6675
  - tropisms 70, 77, 147, 2357
  - tryptophan 71, 8814
  - ultraviolet radiation 6675
  - variegation 11216
  - vivipary 12418

- ***Arabidopsis thaliana*** *cont.*
  - nucleocytoplasmic interaction
    - carotenoids 11216
    - variegation 11216
  - nucleotide sequences 1152, 1156, 4584, 8806, 11202, 11223
    - abscisic acid 7630-7631
    - ACC synthase 3503
    - acetyl-CoA carboxylase 12400
    - acyl carrier protein 10009
    - acyl carrier protein thioesterase 5775
    - acyl-CoA desaturase 11207
    - adenosinetriphosphatase 6671, 8811
    - 5′-adenylylphosphosulfate kinase 11208
    - amino acid permease 3497
    - aminoimidazole ribonucleotide synthetase 10005
    - anthocyanins 5779
    - aspartate carbamoyltransferase 10007
    - aspartate kinase 8808
    - auxin binding proteins 8810
    - binding proteins 7628
    - calcium binding proteins 8811
    - calmodulin 5772
    - calnexin 3527
    - carbonate dehydratase 11203, 12401
    - chlorophyll 6676
    - chlorophyll *a*/*b* binding protein 7629, 12397
    - chloroplasts 8811
    - cold 7659, 12409
    - cold resistance 7627
    - cysteine proteinase 7660
    - dihydrodipicolinate synthase 12187
    - DNA photolyases 3507
    - drought 7659
    - epoxide hydrolase 11205
    - flowering 5780
    - β-fructofuranosidase 8807
    - geranylgeranyl pyrophosphate synthase 10002
    - gibberellic acid 7638
    - β-glucanase 4203
    - glucose-1-phosphate adenylyltransferase 4590
    - glutamate 1-semialdehyde 2,1-aminomutase 6676
    - glutamine tRNA reductase 6676
    - glutathione reductase 10012
    - glycinamide ribonucleotide transformylase 10005
    - GTP-binding proteins 3526
    - heat shock proteins 11224
    - heavy metals 10028
    - imidazoleglycerol-phosphate dehydratase 12399
    - kinases 12408
    - laminin receptor 4586
    - light 3507
    - lipoxygenase 5768
    - metallothionein 10028
    - methyltransferases 7632, 12406
    - nitrates 5789
    - nutrients 5789
    - organelles 4581
    - orotate phosphoribosyltransferase 10007
    - orotidine-5′-phosphate decarboxylase 10007
    - pathogenesis-related proteins 8822
    - peroxidases 7626
    - phosphatidylcholine desaturase 5781
    - phosphoprotein phosphatase 7630-7631
    - phosphoribosylamine-glycine ligase 10005
    - photosynthesis 7617
    - phytochrome 11200
    - phytoene desaturase 7618
    - phytoene synthase 10003
    - plant hairs 4592
    - protein kinase 2352, 7620, 11201
    - proteins 3502, 4588-4589, 7638
    - ribosomes 4585
    - RNA 8810
    - serine phosphatase 4587
    - stress 6680
    - sucrose transporter 10004
    - sulfate adenylyltransferase 12411
    - thioglucosidase 4583
- ***Arabidopsis thaliana*** *cont.*
  - nucleotide sequences *cont.*
    - thiol protease 8821
    - threonine phosphatase 4587
    - triose-phosphate isomerase 8809
    - ubiquitin 7615, 12402
    - water balance 11217
    - *Xanthomonas campestris* 8822
  - *Peronospora parasitica* 11228
  - photoperiodism 3522
  - pollen 12413
  - polymerase chain reaction
    - dihydrodipicolinate synthase 12187
    - plant hairs 12415
  - polymorphism, photosynthesis 932
  - polyploidy 12413
  - protoplasts 7653
  - radiation 10015
  - random amplified polymorphic DNA 64
  - recombination
    - acetolactate synthase 7656
    - herbicides 7656
  - restriction fragment length polymorphism 2351
    - ecotypes 2354
    - genetic distance 2354
    - glucosinolates 6349
    - growth period 7649
  - synaptonemal complex 11213
  - tissue culture 82, 5805, 6674, 12422
  - transposable elements 11225
    - colour 8815
  - ultraviolet radiation 1164
  - vernalization 3522
  - X radiation 7636
  - *Xanthomonas campestris* 4597
- ***Arabidopsis* (×) *Brassica*,** protoplast fusion 5358, 7326
- **Arabis mosaic nepovirus,** *Vitis vinifera* 784
- ***Arabis pumila***
  - polyploidy 1009
  - taxonomy 1009
- ***Arabis stellulata***
  - polyploidy 1009
  - taxonomy 1009
- **Arachins,** *Arachis hypogaea* 10877
- ***Arachis***
  - embryology 1979
  - evolution 13161
  - *Frankliniella* 868
  - gene banks 6411, 6413
  - genetic resources 6411-6414, 13158
  - genetic variation, isoenzymes 4254
  - germplasm releases
    - *Meloidogyne arenaria* 12091
    - *Mycosphaerella arachidis* 4264, 12091
    - *Mycosphaerella berkeleyi* 4264, 12091
  - interspecific hybridization 12091
  - polyploidy 1979
  - proteins 13161-13162
  - seeds 13162
  - *Spodoptera frugiperda* 868
  - taxonomy 13162
- ***Arachis batizocoi*,** interspecific hybridization 3236
- ***Arachis cardenasii***
  - interspecific hybridization 4264
  - restriction fragment length polymorphism 5401
- ***Arachis correntina*,** interspecific hybridization 3236
- ***Arachis duranensis***
  - abnormal development 7359
  - embryology 7359
  - interspecific hybridization 7359
- ***Arachis hypogaea***
  - abnormal development 7359
  - *Aproaerema modicella* 3250
  - arachins 10877
  - artificial selection
    - quality 1990
    - *Thielaviopsis basicola* 1990-1991
    - yield components 9689
  - *Aspergillus flavus* 8505, 12090
  - *Aspergillus terreus* 8505
  - aster yellows 2567
  - *Bradyrhizobium* 7366
  - breeding 4247, 6104
    - history 12075
- ***Arachis hypogaea*** *cont.*
  - calcium 865, 13163
  - canopy 4255, 13159
  - carbon 6425
  - *Caryedon serratus* 869
  - cell culture 10883
    - drought resistance 3241
  - chlorosis 5402
  - cold resistance 4262, 12081
  - combining ability
    - canopy 1982
    - yield components 1982, 10879
  - *Corticium rolfsii* 3246, 8506
  - crop density 7360
  - crop mixtures, *Zea mays* 4261, 8503
  - cytology, books 9950
  - development 7361
  - diseases 4253
  - dormancy 1980
  - drought resistance 1986-1989, 3242, 6109, 6425, 10883, 12086
  - embryo culture 4259, 10880, 12084
  - embryology 7359
  - fatty acids 863, 7362-7364
  - fertility 859, 865
  - gamma radiation 7358
  - gene expression
    - heat shock 12466
    - phosphinothricin acetyltransferase 12077
    - phosphoenolpyruvate carboxylase 12466
    - ribulose-bisphosphate carboxylase 12466
    - tomato spotted wilt tospovirus 12077
  - genetic engineering 9332
  - genetic resources 4249, 6104, 6722, 12075, 12088
  - genetic transformation 5400, 6417, 10875
    - phosphinothricin acetyltransferase 12077
    - tomato spotted wilt tospovirus 12077
  - genetic variance, yield components 12082
  - genetic variation, yield components 1985
  - genetics
    - books 9950
    - habit 3238
    - iron 7365
    - leaves 1981
    - nutrients 7365
    - *Sclerotinia minor* 3244
    - seeds 12078
  - genotype environment interaction 6423
    - carbon 6418
    - photosynthesis 6418
    - yield components 861-862, 13164
  - germination 4256
  - germplasm releases
    - *Meloidogyne arenaria* 12091
    - *Mycosphaerella arachidis* 12091
    - *Mycosphaerella berkeleyi* 12091
  - groundnut rosette virus 4247
  - habit 1983, 1985, 4252, 7363, 13163
  - harvest index 7361
  - harvesting 860
  - heat resistance 866
  - *Helicoverpa armigera* 3251
  - heritability
    - *Mycosphaerella berkeleyi* 4263
    - *Sclerotinia minor* 3244
    - *Thielaviopsis basicola* 1991
    - yield components 861, 4257, 9690, 10878
  - heterosis, yield components 1983
  - *in vitro* culture 13160
  - *in vitro* selection, glyphosate 9691
  - induced mutations 4252
    - yield components 7358
  - interspecific hybridization 4264, 7359
  - iron 5402
  - linoleic acid 6421, 10881
  - molecular genetics
    - peanut stripe potyvirus 5404
    - phytoalexins 5740
  - multivariate analysis, yield components 1984, 4258
  - mutagens 4252
  - mycoplasma-like organisms 2567
  - *Mycosphaerella arachidis* 3245, 3248, 8506, 10887, 13168

- ***Arachis hypogaea*** *cont.*
  - *Mycosphaerella berkeleyi* 3243, 3248-3249, 5403, 8506, 10887, 12089, 13168
  - nitrogen 863
  - nitrogen fixation 4261, 10882
  - nutrients 865, 5402, 13163
  - oils 6421, 7363-7364, 10881
  - oleic acid 6421, 10881
  - peanut bud necrosis virus 7368
  - photosynthesis 6425, 7360, 12080-12081, 13159
  - phytoalexins 13169
  - proteins 3237, 6421, 10881
  - *Pseudomonas solanacearum* 10885-10886, 12087-12088, 13165-13167
  - *Puccinia arachidis* 3243, 3248-3249, 5403, 10887, 12089
    - reviews 7367
  - quality 6422, 7362
  - random amplified polymorphic DNA 6417
  - restriction fragment length polymorphism 5401, 6417
  - *Rhizobium* 12087
  - salinity 6424, 10884
  - *Sclerotinia* 867
  - *Sclerotinia minor* 3245, 3247
  - seedlings 12079
  - seeds 3237
  - sodium azide 4252
  - soil pH 859
  - sowing 12085
  - *Spodoptera litura* 3251
  - stomata 4253
  - storage, seeds 4256
  - temperature 12080-12081, 13159
  - *Thrips palmi* 7368
  - tissue culture 3240, 4259-4260, 5404, 6419, 8504
  - tocopherols 6420
  - tomato spotted wilt tospovirus 5403
  - translocation 7361
  - twinning 9688
  - variety trials 857-858, 3235, 3564, 4250
  - water balance 10876
  - yield components 860, 4255
  - yield correlations 859, 863, 1991, 3239, 4257, 8503, 9690, 12083
  - varieties 4251, 6415
    - Fleur-11 12076
    - Tainan-9 6416
    - VA-C92R 9687
- ***Arachis monticola,*** cold resistance 4262
- ***Arachis paraguariensis,*** protoplasts 864
- ***Arachis pintoi***
  - gene banks 4248
  - genetic resources 4248
  - polymorphism, isoenzymes 4248
- ***Arachis stenosperma***
  - abnormal development 7359
  - embryology 7359
  - interspecific hybridization 7359
  - restriction fragment length polymorphism 5401
- ***Aralia cordata***
  - gene expression, cinnamyl-alcohol dehydrogenase 7539
  - nucleotide sequences, cinnamyl-alcohol dehydrogenase 7539
- ***Aranda***
  - gene expression, flowers 4453
  - nucleotide sequences, flowers 4453
- ***Araujia sericofera,*** tissue culture 7507
- ***Arbutus canariensis,*** interspecific hybridization 5615
- ***Arbutus unedo,*** interspecific hybridization 5615
- **Arcelin,** *Phaseolus vulgaris* 3964
- **Archaeology** 6717, 11263
  - crops 11487
  - *Gossypium barbadense* 13242
  - *Oryza sativa* 11600, 12750
  - *Zea mays* 1457, 11456, 11475-11476, 11480-11488, 11492
    - polymerase chain reaction 11436
- ***Ardisia,*** taxonomy 2127
- ***Ardisia cardenasii,*** taxonomy 8626
- ***Ardisia mcphersonii,*** taxonomy 8626
- ***Areca tunku,*** taxonomy 5341
- **Arecaceae**
  - chromosome number 8616
  - evolution 8616
- **Arginine decarboxylase**
  - *Lycopersicon esculentum*
    - gene expression 4063
    - molecular genetics 4063
- ***Argyrolobium,*** taxonomy 8130
- ***Argyrolobium campicola,*** taxonomy 1685
- ***Argyrolobium longifolium,*** taxonomy 8130
- ***Argyrolobium parviflorum,*** taxonomy 1685
- ***Argyrolobium pseudotuberosum,*** taxonomy 8130
- ***Aria,*** taxonomy 8628
- ***Armoracia rusticana***
  - gene expression, peroxidases 4487, 5680
  - genetic engineering, peroxidases 4487, 5680
  - genetic transformation 7559
  - peroxidases 7560
  - somaclonal variation 7560
  - tissue culture 7559-7560
- ***Arnebia euchroma,*** genetic resources 8767
- ***Arnica acaulis***
  - chemotaxonomy 12293
  - glycosides 12293
- ***Arnica montana***
  - chemotaxonomy 12293
  - glycosides 12293
  - tissue culture 9917
- **Aroma**
  - *Allium cepa* 7197
  - *Oryza sativa,* genetics 1584, 6048
  - *Prunus armeniaca* 11957
  - *Prunus domestica* 11957
  - *Prunus salicina* 11957
  - *Sambucus nigra,* multivariate analysis 6316
- **Aromatic-L-amino-acid decarboxylase**
  - *Catharanthus roseus*
    - gene expression 8732
    - genetic engineering 8732
  - *Nicotiana tabacum*
    - gene expression 8732
    - genetic transformation 8732
- ***Arrhenatherum,*** chromosome morphology 2810
- **Arsenates,** *Holcus lanatus* 12807
- **Arsenic,** *Holcus lanatus* 471
- ***Artemisia,*** essential oils 13396
- ***Artemisia absinthium***
  - essential oils 13396
  - interspecific hybridization 13396
- ***Artemisia annua***
  - essential oils 13390
  - qinghaosu 13390
  - tissue culture 7547
- ***Artemisia arborescens***
  - essential oils 13396
  - interspecific hybridization 13396
  - terpenoids 11041
  - variety classification 11041
- ***Artemisia judaica,*** essential oils 7556
- ***Arthragrostis clarksoniana,*** taxonomy 2814
- **Artichoke mottled crinkle tombusvirus,** *Nicotiana benthamiana,* genetic transformation 5470
- **Artificial defoliation** (*see* Defoliation)
- **Artificial seeds,** *Daucus carota* 8284
- **Artificial selection** 2293-2294, 3459, 4525, 8763
  - abscisic acid, reviews 3474
  - *Agropyron desertorum*
    - carbon 8075
    - drought resistance 8075
  - *Agrostis stolonifera,* drought resistance 3906
  - *Allium sativum*
    - bulbs 3036
    - essential oils 11860
  - *Arachis hypogaea*
    - quality 1990
    - *Thielaviopsis basicola* 1990-1991
    - yield components 9689
  - *Avena* 1244
  - *Avena sativa*
    - nutritive value 8974
    - proteins 3691
    - seeds 3688
    - yield components 3685, 3691, 11400
- **Artificial selection** *cont.*
  - *Beta vulgaris*
    - sugarbeet
      - respiration 13187
      - statistics 7579
  - *Brassica campestris,* turnip rape, *Phyllotreta cruciferae* 7331
  - *Brassica napus*
    - rape 4200
      - cytoplasmic male sterility 12039
      - erucic acid 3203
      - glucosinolates 7329
      - yield components 3191
    - swedes 10616
  - *Cajanus cajan,* yield components 576
  - *Capsicum*
    - *Verticillium albo-atrum* 707
    - *Verticillium dahliae* 4101
  - *Carthamus tinctorius,* oils 1971
  - *Chenopodium quinoa* 4907
  - *Cicer arietinum* 3972
  - *Citrus* 12011
  - *Citrus reticulata,* fruits 5319
  - *Clarkia amoena*
    - flowers 12243
    - stems 12243
  - *Cocos nucifera* 6388
    - yields 6385, 6390-6391
  - *Coffea canephora*
    - drought resistance 12120
    - yield components 10919
  - computer programming 2295
  - computer simulation 1083
  - crops, diseases 6648
  - *Cucumis melo*
    - cucumber green mottle mosaic tobamovirus 11909
    - watermelon mosaic 2 potyvirus 13031
  - *Cucumis sativus*
    - *Cladosporium cucumerinum* 723
    - *Pseudomonas lachrymans* 723
    - *Pseudoperonospora cubensis* 723
    - sex 10708
  - *Cucurbita moschata,* papaya ringspot potyvirus 11924
  - *Cuphea*
    - decanoic acid 6433
    - octanoic acid 6433
  - *Cuphea lanceolata*
    - decanoic acid 6433
    - octanoic acid 6433
  - *Cuphea viscosissima*
    - decanoic acid 6433
    - octanoic acid 6433
  - *Cupressus, Seiridium cardinale* 7497
  - *Cynodon dactylon,* cold resistance 8083
  - *Dactylis glomerata,* cold resistance 3870
  - *Danthonia linkii*
    - inflorescences 3897-3898
    - seeds 3897-3898
  - *Danthonia richardsonii*
    - inflorescences 3897-3898
    - seeds 3897-3898
  - *Dendranthema morifolium* 997
  - *Digitaria eriantha*
    - fertility 462
    - seed production 462
  - diseases 2309, 4561
    - reviews 34
  - drought resistance, reviews 3474
  - *Elaeis guineensis* 3222, 13146
  - *Eucalyptus globulus,* wood properties 9778
  - *Eucalyptus tereticornis* 9772
  - *Festuca pratensis*
    - cold resistance 3870, 11619
    - *Fusarium roseum* 11619
    - *Sclerotinia borealis* 11619
    - *Typhula ishikariensis* 11619, 12782
  - forest trees
    - diseases 9770
    - mathematics 4370
    - statistics 8583
    - wood properties 12182
  - fungi 2309
  - genetic markers
    - mathematics 4603
    - reviews 92
  - *Gerbera hybrida*
    - flowering 4427
    - growth period 4427

Artificial selection *cont.*
- *Glycine max* 10478
  - chlorosis 9365
  - fusaric acid 7095
  - *Fusarium* 7095
  - iron 2868, 9365
  - lipoxygenase 2865
  - nitrogen 6130
  - nitrogen fixation 9364
  - nodulation 9364
  - nutrients 2868, 6130
  - oils 3945
  - proteins 1707, 3945, 11697
  - quality 2865
  - seeds 3945, 6136
  - source sink relations 6136
  - yield components 1692, 10483, 11697
  - yields 6130
- *Gossypium*
  - gossypol 9749
  - quality 9749
- *Gossypium barbadense,* yield components 4317
- *Gossypium hirsutum,* quality 7418, 9746
- grain legumes, stress 8135
- grasses, drought resistance, reviews 1625
- *Guizotia abyssinica,* yield components 4269
- *Helianthus annuus*
  - seedlings 7333
  - seeds 1964
- *Hordeum agriocrithon*
  - brittleness 3672
  - inflorescences 3672
- *Hordeum spontaneum* 1244
  - brittleness 3672
  - inflorescences 3672
- *Hordeum vulgare* 1244
  - brittleness 3672
  - cold resistance 5920
  - drought resistance 2622
  - *Erysiphe graminis* 7860
  - growth period 5920
  - ideotypes 5920
  - inflorescences 3672
  - salinity 8966
  - stability 4657
- *Ipomoea batatas* 12952
- linkage, mathematics 4603
- *Linum usitatissimum,* linseed, yields 1961
- *Lolium perenne* 10395
  - drought resistance 2780, 3879
  - respiration 4918
  - seasonal growth 2780
  - yield components 10397
- *Lotus corniculatus,* yield components 9310
- *Lupinus albus,* stress 7072
- *Lupinus luteus,* yields 7061
- *Lycopersicon*
  - *Alternaria solani* 11894
  - pollen 11894
- *Lycopersicon esculentum*
  - *Alternaria solani* 11894
  - growth period 1837
  - pollen 11894
- *Macrotyloma* × *Lablab*
  - determinate and indeterminate habit 6227
  - photoperiodism 6227
- *Mangifera indica,* polyembryony 13103
- mathematics 1083, 5726, 8762, 12333, 12335
- *Medicago sativa*
  - diseases 2823
  - grazing 6079
  - leaves 2823, 2828
  - persistence 6079
  - pests 2823
  - phosphorus 10428
  - pollen competition 11661
  - pollination 6077-6078, 8101
  - salinity 11667
  - stress 6057
- *Nicotiana tabacum*
  - carbon dioxide 3287, 6488
  - photosynthesis 3287, 6488, 9725
  - *Phytophthora nicotianae* 8563, 9732
  - potato Y potyvirus 3311
  - *Pseudomonas syringae* 8563

Artificial selection *cont.*
- *Nicotiana tabacum cont.*
  - ribulose-bisphosphate carboxylase 3287
  - tobacco mosaic tobamovirus 8563
- nutrients 11165
- *Olea europaea* 5394, 6409
- *Oryza sativa* 11546, 12707, 12729
  - male sterility 410, 9207
  - *Sogatella furcifera* 2778
  - yield components 1508
- *Pennisetum glaucum*
  - *Claviceps fusiformis* 9189
  - *Sclerospora graminicola* 6961
  - yield components 6003
- pests, reviews 34
- *Phalaris aquatica,* soil pH 2820
- *Phalaris arundinacea,* soil pH 2820
- *Phaseolus vulgaris* 12872
  - bean common mosaic potyvirus 2884
  - cold resistance 7099
  - *Colletotrichum lindemuthianum* 2884
  - habit 5017
  - ideotypes 6160
  - quality 539
  - yield components 2884, 9386
  - yields 5030, 6162
- *Phleum pratense*
  - cold resistance 11619
  - *Fusarium roseum* 11619
  - *Sclerotinia borealis* 11619
  - *Typhula ishikariensis* 11619, 12782
- *Phoenix dactylifera* 7307-7308
- photosynthesis 2276
  - reviews 7
- *Picea abies* 3363
  - mathematics 4370
- *Picea glauca* 5593
- *Pinus elliottii,* yield components 4367
- *Pinus patula* 13292
- *Pinus pinaster* 11020
- *Pinus radiata,* lignin 12217
- *Pinus sylvestris*
  - computer simulation 5579
  - development 3358
  - statistics 5579
- *Pinus taeda,* wood properties 13305
- *Pisum sativum* 12891
  - *Aphanomyces euteiches* 2914
  - cold resistance 6194
  - *Erysiphe pisi* 6194
  - yield components 8190
- plant composition 12348
- *Platycodon grandiflorus*
  - colour 11056
  - flowers 11056
- *Pleurotus pulmonarius,* spores 4490
- *Populus* 10999
  - habit 13272
  - morphology 13272
- *Populus deltoides* 10999
- *Prunus humilis* 6301
- *Pseudotsuga menziesii* 8651
- quantitative traits 12335
- respiration, reviews 7
- reviews 5-6
- *Rhododendron*
  - calcium 9854
  - soil pH 9854
- roots, reviews 8
- *Saccharum,* cold resistance 6449
- *Saccharum officinarum* 3254, 3261, 5409, 7373
  - history 4271
  - yield components 4271, 12102
- *Saccharum spontaneum*
  - history 4271
  - yield components 4271
- salinity 11165
- *Salix, Erwinia salicis* 8612
- *Sesamum indicum* 13170
- soil pH 11165
- *Solanum tuberosum* 2947, 2958-2959
  - *Globodera pallida* 3006-3007
  - *Globodera rostochiensis* 3006
  - mechanical damage 4009
  - plant disorders 4009
  - quality 2970-2971, 12939
  - yield components 2946, 10579
- *Sorghum bicolor* 11518
  - growth period 7979

Artificial selection *cont.*
- *Sorghum bicolor cont.*
  - salinity 3776
- statistics 11143
- stress, reviews 32, 2387
- *Trifolium ambiguum,* flowering 8113
- *Trifolium pratense* 4948
  - cold resistance 11619
  - *Fusarium roseum* 11619, 11678
  - *Sclerotinia borealis* 11619
  - *Typhula ishikariensis* 11619
- *Trifolium repens*
  - drought resistance 2780
  - nitrogen 7055
  - nutrients 7055
  - phosphorus 7055
  - seasonal growth 2780
  - yield components 6088
- triticale 3701
  - yields 8984
- *Triticum aestivum* 169, 2252, 2450, 3583-3584, 3614, 11294
  - aluminium 2519
  - barley yellow dwarf luteovirus 8941
  - biomass 3621
  - cold resistance 12557, 12560
  - cytoplasmic male sterility 12500
  - desiccation 5890
  - development 11331
  - drought resistance 235, 1327, 3649, 5890, 8918
  - *Fusarium culmorum* 6772, 12564
  - germination 12560
  - *Gibberella* 4666
  - *Gibberella zeae* 8920
  - growth period 11331
  - habit 7765
  - inflorescences 6750
  - *Leptosphaeria nodorum* 12564
  - proline 12557
  - *Puccinia recondita* 8934, 12501
  - quality 1313, 2505, 3634, 11342
  - soil pH 2519
  - sprouting 12516-12518
  - toxic substances 2519
  - waxes 7764
  - yield components 1327, 3621, 4666, 5850, 10106, 11331
  - yields 210, 6750
- *Triticum durum*
  - gliadin 3629
  - gluten 3629
  - quality 3629
  - stability 4657
  - waxes 7764
- *Triticum turgidum* 12481
- *Vicia faba*
  - growth period 12869
  - lodging 12869
  - stress 7072
  - yields 2878, 12869
- *Vigna unguiculata*
  - *Callosobruchus maculatus* 587
  - drought resistance 10553
- *Vitis vinifera* 3156, 10777-10780
  - *Botrytis cinerea* 3165
  - history 10776
- *Zea* 1244
- *Zea mays* 1244, 4809-4810, 7877, 10216, 11420-11421, 12659
  - aluminium 3762
  - *Aspergillus flavus* 4846
  - *Chilo partellus* 1469
  - cold resistance 1461, 4837, 6900
  - colour 10282
  - drought resistance 344, 3748, 7952-7954
  - endosperm 1441, 7947
  - forage 12653
  - fungi 4841, 6905
  - germination 3751
  - growth period 3748, 10269
  - heat resistance 6900
  - height 9109
  - lodging 6905, 10269, 12671
  - lysine 7947
  - maize streak monogeminivirus 11505
  - moisture content 9116
  - nutrients 3757
  - nutritive value 1441-1443
  - oils 11473

Artificial selection *cont.*
  Zea mays cont.
    prolificacy 9111
    proteins 7940, 11473
    quality 11473
    seeds 3751
    Setosphaeria turcica 4843
    soil pH 3762
    statistics 9005
    Stenocarpella maydis 4843
    toxic substances 3762
    tryptophan 10280
    yield components 3748, 5944, 11418, 11458
    yields 1396, 4841, 4843, 6875, 12653
    popcorn, *Setosphaeria turcica* 11503
    sweetcorn, *Puccinia sorghi* 8931
Artocarpus altilis, yield components 6331
Artocarpus heterophyllus
  seed testing 901
  tissue culture 4195, 5332
Artocarpus integer
  molecular genetics, lectins 4193
  nucleotide sequences, lectins 4193
Arum, taxonomy, books 5701
Arundina graminifolia, taxonomy 9896
Arundinaria pygmaea
  protoplasts 11122
  tissue culture 11122
Arytera, taxonomy 8623
Ascia monuste orseis, *Brassica oleracea,* kale 5154, 7200
Asclepias speciosa
  fibres 7429
  interspecific hybridization 963, 7429
  yield components 963
Asclepias syriaca
  fibres 7429
  interspecific hybridization 963, 7429
  yield components 963
Ascochyta (*see also Didymella; Mycosphaerella; Phoma)*
  Pisum sativum 5058
  Vicia faba 8169
Ascochyta fabae
  Lens culinaris 8206, 12909
  Lens nigricans 12909
  Vicia montbretii 12909
Ascochyta pisi
  Pisum sativum 8202, 12901
    gene expression 2913
    molecular genetics 2913
Ascochyta rabiei
  Cicer 572, 1754
  Cicer arietinum 573, 1753, 2928, 2930, 5066, 6114, 6208, 7134, 8209-8210, 9420, 12912
    Fusarium oxysporum 6210
    genetics 571
    germplasm releases 2931
    molecular genetics 6209
  Cicer echinospermum 572
  Cicer pinnatifidum 572
Ascorbate oxidase
  Cucumis sativus
    genetic engineering 10705
    genetic transformation 10705
    nucleotide sequences 10705
  Nicotiana tabacum
    gene expression 10705
    genetic transformation 10705
Ascorbate peroxidase
  Glycine max, nucleotide sequences 4986
  molecular genetics, reviews 8783
Ascorbic acid
  Actinidia arguta 7297
  Actinidia kolomikta 7297
  Malus pumila 13046
  Rosa 5309
  Solanum tuberosum 9467
  Zea mays 11494
Asparaginase
  Lupinus angustifolius
    gene expression 11685
    genetic engineering 11685
    genetic transformation 11685
  Nicotiana tabacum
    gene expression 11685
    genetic transformation 11685
Asparagine synthetase
  Asparagus officinalis
    gene expression 656
    molecular genetics 656
Asparagus
  chromosome pairing 4048
  polyploidy 4048
  unreduced gametes 8318
Asparagus cooperi, tissue culture 8727
Asparagus officinalis
  aneuploidy 4047
  anther culture 658-659, 12986
  combining ability, *Puccinia asparagi* 5160
  cryopreservation 6259, 6294, 12983
  fructans 11872
  gene expression
    asparagine synthetase 656
    pathogenesis-related proteins 10653
    ubiquitin 12984
  genetic engineering, pathogenesis-related proteins 10653
  genetic transformation 10651
  genetics, isoenzymes 1824
  genotype environment interaction, yield components 12988
  heritability, *Puccinia asparagi* 5160
  hybridization 657
  mixoploidy 4047
  molecular genetics, asparagine synthetase 656
  non-disjunction 4047
  nucleotide sequences, ubiquitin 12984
  polyploidy 658
  protoplasts 659, 10651, 12985
  quality 1823, 1825, 7205
  somaclonal variation 8319
  temperature 11872
  tissue culture 5159, 8319, 12985, 12987
  variety trials 655, 1823, 8317, 9530
  vigour 10652
  yield correlations 5158, 10652
Aspartate aminotransferase
  Citrus 805, 9627
  Fortunella 9627
  Hordeum vulgare, genetics 1359
  Lupinus angustifolius
    genetic engineering 8118
    nucleotide sequences 8118
  Medicago sativa, molecular genetics 3915
  Microcitrus 9627
  Pisum sativum 2908
  Poncirus 9627
  Triticum aestivum 6788
Aspartate-ammonia ligase
  Nicotiana tabacum, genetic transformation 6172
  Pisum sativum
    gene expression 5047, 6172
    genetic engineering 6172
Aspartate carbamoyltransferase
  Arabidopsis thaliana, nucleotide sequences 10007
  Pisum sativum
    gene expression 10518
    molecular genetics 10518
Aspartate kinase
  Arabidopsis thaliana, nucleotide sequences 8808
  Nicotiana tabacum, genetic transformation 4292
Aspartate transcarbamoylase, *Pisum sativum,* molecular genetics 547
Aspergillus alutaceus
  Brassica napus, rape 12569
  Triticum aestivum 12569
Aspergillus flavus
  Arachis hypogaea 8505, 12090
  Vigna unguiculata 10554
  Zea mays 10296
    artificial selection 4846
    germplasm releases 347
Aspergillus terreus, *Arachis hypogaea* 8505
Asphodelus albus
  female fertility 3418
  seeds 4446
Asplenium, taxonomy 6599
Asplenium nidus, *in vitro* culture 5657
Aster, tomato aspermy cucumovirus 8695
Aster ageratoides, polyploidy 5631
Aster lanceolatus
  development 1004
  polyploidy 1004
  translocation 1004
Aster yellows
  Arachis hypogaea 2567
  Triticum aestivum 2567
Asteridae
  chloroplast genetics
    evolution 2402
    ribulose-bisphosphate carboxylase 2402
    taxonomy 2402
Astragalus
  chloroplast genetics, taxonomy 495
  molecular genetics, evolution 3937
  polymerase chain reaction, evolution 3937
  taxonomy 1687
Astragalus adsurgens
  chromosome aberrations 8128
  inflorescences 9314
  pollen 8128
  yield correlations 9314
Astragalus brevipilus, taxonomy 1683
Astragalus cicer
  breeding 4961
  genetics 4961
  germplasm releases
    drought resistance 1678
    seedlings 1678
  varieties, Windsor 9312
Astragalus dianat-nejadii, taxonomy 1684
Astragalus tortipes, taxonomy 12825
Astrocaryum mexicanum
  gene flow 979
  genetic drift 979
  population genetics 979
Astronium urundeuva
  cryopreservation 12285
  genetic variation 4347
  storage, seeds 12285
Asynapsis, *Zea mays* 2678
Atalantia (×) ***Citrus,*** protoplast fusion 3174
Athenaea, taxonomy 1853
Atherigona soccata
  Sorghum bicolor 363, 2715-2716, 4873, 7980, 9180, 11519
    genetic variance 10316
    genetics 10316
Atmospheric pollution (*see* Air pollution)
Atrazine
  Brassica napus, rape, mutations 3213
  Lolium rigidum 2796
  Solanum tuberosum, mutations 4012
Atriplex nummularia
  gene expression
    adenosinetriphosphatase 3430, 3475
    salinity 3430, 3475
  nucleotide sequences, glyceraldehyde-3-phosphate dehydrogenase 9922
Atropa belladonna
  gene expression, hyoscyamine (6*S*)-dioxygenase 13382
  genetic transformation, hyoscyamine (6*S*) -dioxygenase 13382
Atropa (×) ***Hyoscyamus***
  intergeneric hybridization 3426
  protoplast fusion 3426
Atylosia sericeus, *Callosobruchus maculatus* 11776
Atylosia* × *Cajanus
  heterosis
    methionine 577
    proteins 577
  intergeneric hybridization 577, 1758, 7135, 8213
  male sterility 1758
Australopyrum calcis, taxonomy 3905
Australopyrum pectinatum, taxonomy 3905
Australopyrum refractum, taxonomy 3905
Austria, Federal Institute for Plant Production, reports 134, 136, 139, 152-153, 163, 165, 301, 305, 600, 631, 847, 898, 1070
Autopolyploidy (*see* Polyploidy)
Auxin binding proteins
  Arabidopsis thaliana, nucleotide sequences 8810
  Zea mays
    gene expression 312

- **Auxin binding proteins** *cont.*
  - *Zea mays cont.*
    - molecular genetics 312
- **Auxins**
  - *Arabidopsis thaliana*
    - gene expression 3512
    - molecular genetics 3512
  - genetic transformation 9995
  - *Glycine max*
    - gene expression 506, 6128, 8149, 10463
    - gene mapping 10463
    - genetic engineering 6128
  - *Hordeum vulgare,* genetic transformation 3495
  - *Lycopersicon esculentum,* genetic transformation 8344
  - molecular genetics 11188
  - *Nicotiana tabacum*
    - gene expression 909, 914, 6128
    - genetic transformation 914, 3495, 6128, 8149
- ***Avena***
  - artificial selection 1244
  - chromosome banding, genomes 6860
  - chromosome morphology 2810
  - cytogenetics, reviews 4788
  - databases 10198
  - evolution 4791, 6862
  - gene banks 7690, 10197, 10199
  - gene expression, phytochrome 11398
  - genetic resources 10197-10199
    - reports 6857
  - natural selection 1244
  - population genetics 1244
  - taxonomy 4791
- ***Avena barbata***
  - genetic variation, isoenzymes 12636
  - population genetics 12636
- ***Avena byzantina***
  - aneuploidy 3687
  - chromosome banding 3687
  - chromosome translocation 3687
  - genetic variation, isoenzymes 5929
  - restriction fragment length polymorphism 3687
- ***Avena fatua***
  - fatuoids 1378
  - gene expression
    - dormancy 5934, 12637
    - seeds 5934
  - herbicides 2647, 7868
  - *Hordeum vulgare* 5927
  - interspecific hybridization 1378
  - *Puccinia graminis* 2646
  - variety classification 1378
- ***Avena hirtula***
  - genetic variation, isoenzymes 12636
  - population genetics 12636
- ***Avena nuda***
  - gene location, *Puccinia coronata* 6866
  - genetic resources 10196
  - genetics, *Puccinia coronata* 6866
  - interspecific hybridization 6866
  - varieties, Dorada 6859
- ***Avena sativa***
  - amylases 2431
  - artificial selection
    - nutritive value 8974
    - proteins 3691
    - seeds 3688
    - yield components 3685, 3691, 11400
  - avenanthramides 10202
  - avenin 2433
  - breeding 2421, 6858
    - history 3686, 12632
    - reviews 4783-4784, 10195
  - cadmium 11402
  - cell culture 4789
  - chloroplast genetics 5846
  - chlorosis 12638
  - cold resistance 4792
  - competitive ability 11288
  - crop mixtures 11288
  - development 1377, 11399
  - diseases 4794
  - *Diuraphis noxia* 10149
  - *Erysiphe graminis* 2440
  - fatty acids 10205
  - fatuoids 1378
  - fibre 11286
- ***Avena sativa*** *cont.*
  - forage 3690, 5935, 6058-6059
  - gene banks 152
  - gene expression 5846
    - abscisic acid 155
    - α-amylase 155
    - *Cochliobolus victoriae* 12640
    - DNA binding proteins 6966
    - gibberellins 155
    - growth regulators 155
    - pathogenesis-related proteins 12640
    - phytochrome 3285, 5930, 6966, 7864, 10022, 10201
  - gene location, *Puccinia coronata* 11404
  - genetic distance 7865
  - genetic engineering 7639
    - phytochrome 3285, 10201
  - genetic markers, *Puccinia coronata* 11404
  - genetic resources 4785
  - genetic variation, isoenzymes 5929, 7866
  - genetics
    - *Erysiphe graminis* 5936
    - *Puccinia coronata* 5936
    - *Puccinia graminis* 5936
    - reviews 4787
    - *Ustilago segetum* 2644
  - genotype environment interaction
    - forage 6863
    - plant composition 1249
    - yield components 8975, 12639
  - β-glucan 1380-1381, 7867
  - growth period 1377
  - heavy metals 11402
  - herbicides 12581
  - heritability, yield components 8973
  - *Heterodera* 4663
  - heterosis, yield components 1379
  - induced mutations, height 5933
  - interspecific hybridization 1378, 12632
  - linkage
    - avenin 12641
    - *Puccinia coronata* 12641
    - *Puccinia graminis* 12641
  - lodging, reviews 6865
  - low input agriculture 11401
  - molecular genetics
    - actin 5931
    - phytochrome 5930-5931
    - tubulin 5931
  - mutagens
    - ethyl methanesulfonate 5933
    - sodium azide 5933
  - naked grain 7867
  - nucleotide sequences 7864, 12635
    - *Cochliobolus victoriae* 12640
    - globulins 12634
    - β-glucanase 4786
    - pathogenesis-related proteins 12640
  - phenolic compounds 10202
  - plant composition 5935
  - polymerase chain reaction 12635
  - *Puccinia coronata* 2645, 6737, 10205
  - *Puccinia graminis* 2646, 4662, 6737
  - *Pyrenophora avenae* 11403
  - quality 1380, 2642, 4790, 10063
  - random amplified polymorphic DNA
    - *Puccinia coronata* 3692
    - variety classification 12633
  - restriction fragment length polymorphism 7865
    - evolution 6861
    - *Puccinia coronata* 11404
  - *Schizaphis graminum* 10067
  - stability 6864
    - statistics 7584
    - yield components 8975-8976
  - stress, reviews 4793
  - tissue culture 4789
  - toxic substances 11402
  - *Ustilago segetum* 2643, 10204
  - variety classification 1378, 2433
  - variety trials 153, 11401
  - yield correlations 2642, 8973
  - varieties 134, 153, 4646, 8862
    - AC Hunter 7863
    - AC Percy 2641
    - Armor 1375
    - Edo 1376, 6727
    - Irtysh-13 292
    - Irtysh-15 292
- ***Avena sativa*** *cont.*
  - varieties *cont.*
    - Novosibirskiĭ-88 2423
    - Pokrovskiĭ-9 2423
    - Ranok 2412
    - Tomba 1376, 6727
    - Yeats 10200
- ***Avena sterilis***
  - breeding, history 12632
  - genetic distance, isoenzymes 3689
  - genetic resources 5929
  - genetic variation, isoenzymes 5929, 5932
  - β-glucan 1381
  - herbicides 2647
  - interspecific hybridization 12632
  - morphology 5932
  - polymorphism, isoenzymes 5932
  - random amplified polymorphic DNA, variety classification 3689
  - restriction fragment length polymorphism 5932
  - *Triticum aestivum* 8947
- ***Avena wiestii***
  - gene location, *Puccinia coronata* 6866
  - genetics, *Puccinia coronata* 6866
  - interspecific hybridization 6866
- **Avenanthramides,** *Avena sativa* 10202
- **Aveneae,** taxonomy 2810
- **Avenin**
  - *Avena sativa* 2433
    - linkage 12641
- ***Avenula,*** taxonomy 8093, 9274
- ***Avenula marginata,*** taxonomy 10203
- ***Averrhoa carambola***
  - gynoecium 12021
  - pollination 12021
  - self incompatibility 12021
- **Awns**
  - *Hordeum vulgare* 12605
    - somaclonal variation 11385
  - *Triticum aestivum* 11330
    - genetics 8897
    - germplasm releases 214
    - pleiotropy 12529
- **Azacytidine**
  - *Glycine max* 10474
  - *Linum usitatissimum,* flax 7425
- ***Azadirachta indica***
  - anther culture 1055
  - breeding, conferences 8755
- ***Azolla,*** *Rhopalosiphum nymphaeae* 7562
- **B chromosomes** (*see* Accessory chromosomes)
- ***Bacillus thuringiensis***
  - crops
    - gene expression 9972
    - genetic transformation 9971-9972
  - genetic transformation 5745
  - *Gossypium hirsutum*
    - gene expression 3330
    - genetic transformation 3330
  - *Juglans regia,* genetic transformation 8458
  - *Lycopersicon esculentum,* genetic engineering 683
  - *Nicotiana tabacum*
    - gene expression 12156
    - genetic transformation 12156
- **Back mutations**
  - *Hordeum vulgare*
    - free radicals 2589, 2612
    - inflorescences 2589, 2591, 2612
    - lysine 2589
    - proteins 2589, 2612
- **Backcrossing**
  - *Brassica napus,* rape 1942
  - *Brassica* × *Diplotaxis,* cytoplasmic male sterility 13131
  - *Glycine gracilis* 12839
  - *Glycine max* 12839
  - *Glycine soja* 12839
  - *Hordeum vulgare,* cytoplasmic male sterility 1353
  - *Lycopersicon esculentum* 11881, 11893
  - *Lycopersicon peruvianum* 11881
  - *Nicotiana eastii* 5454
  - *Nicotiana tabacum* 5454-5455
  - *Oryza sativa* 12729
    - male sterility 3825
    - photoperiodism 3825
  - *Pisum sativum,* amylose 12897

- **Backcrossing** *cont.*
  - *Saccharum robustum*
    - quality 5415
    - yield components 5415
  - *Secale* 296
  - *Secale cereale,* accessory chromosomes 12644
  - statistics 12
  - *Tripsacum dactyloides* 12688
  - *Triticum aestivum* 1262
    - height 212
    - yield components 212
  - *Zea mays* 9004
    - mathematics 1397
- **Bacteria**
  - gene expression 1116
  - genetic engineering 6653, 9965
    - reviews 35
  - genetic transformation 12392
  - genetics 1116
  - *Medicago sativa* 4946
  - *Oryza sativa* 2759
- ***Bactris gasipaes,*** plant introduction 12992
- ***Bactrocera oleae,*** *Olea europaea* 7357
- **Bamboos**
  - flowering 11117
  - genetic resources 9944
  - *in vitro* culture 12283, 12304
  - *in vitro* selection, salinity 12304
  - regenerative ability 12283
- ***Bambusa,*** taxonomy 7558
- ***Bambusa beecheyana***
  - breeding 11116
  - nutritive value 11116
- ***Bambusa glaucescens,*** tissue culture 11118
- ***Bambusa multiplex***
  - protoplasts 11122
  - tissue culture 11122
- ***Bambusa oldhami***
  - protoplasts 11122
  - tissue culture 11122
- ***Bambusa tulda,*** tissue culture 11120
- ***Bambusa vario-striata***
  - breeding 11116
  - nutritive value 11116
- ***Bambusa vulgaris,*** tissue culture 11120
- ***Bambusa* × *Dendrocalamus,*** intergeneric hybridization 11116
- **Bambuseae**
  - evolution 1063
  - proteins 1063
- ***Banksia***
  - pollen 9801
  - pollination 9801
- ***Banksia menziesii***
  - fertility 7502
  - gynoecium 7502
- ***Banksia spinulosa***
  - fertility 7501
  - outcrossing 7501
  - self incompatibility 7501
- ***Baptisia lanceolata,*** seeds 6101
- ***Barbarea* (×) *Brassica***
  - protoplast fusion 8472
  - restriction fragment length polymorphism 8472
- **Barley mild mosaic bymovirus**
  - *Hordeum vulgare* 7862, 10194
    - gene location 4781
    - genetics 1373, 3684, 4781
  - *Triticum aestivum* 7819
  - *Triticum durum* 2566
- **Barley yellow dwarf luteovirus**
  - *Agropyron* 2442, 11624
  - *Agropyron* × *Triticum* 2442
    - genetics 12578
  - *Elymus* 2442, 11624
  - *Elymus hispidus,* chromosome translocation 3889
  - *Elymus* × *Triticum,* chromosome translocation 3536
  - *Hordeum* 11624
  - *Hordeum vulgare* 165, 2442, 3683
    - databases 2623
    - genetics 4782, 12630
  - *Leymus* 2442, 11624
  - *Lolium perenne* 2795
  - *Psathyrostachys* 11624
  - triticale 7716
  - triticale × *Triticum* 7716
  - Triticeae 3580, 8063
- **Barley yellow dwarf luteovirus** *cont.*
  - *Triticum aestivum* 165, 1334, 2442, 7716, 7818
    - artificial selection 8941
    - chromosome translocation 3889
    - genetics 4729
  - *Triticum durum* 10148
  - *Zea mays* 2697
  - *Zea mexicana* 2697
- **Barley yellow mosaic bymovirus**
  - *Hordeum vulgare* 7862, 10194, 12463
    - databases 2623
    - gene location 4781
    - genetics 291, 1373, 3684, 4781
  - *Triticum aestivum* 7819
- ***Basella,*** breeding 5164
- ***Bassovia,*** taxonomy 1853
- ***Bauhinia,*** taxonomy 9761-9762
- ***Bauhinia cercidifolia,*** taxonomy 9761
- ***Bauhinia ornata,*** taxonomy 1682
- ***Bauhinia purpurea,*** tissue culture 5564
- ***Bealia mexicana,*** genetic variation, isoenzymes 6071
- **Bean common mosaic potyvirus**
  - *Phaseolus vulgaris*
    - artificial selection 2884
    - genetic markers 11749
    - random amplified polymorphic DNA 11749
  - *Vigna radiata,* genetics 8232
- **Bean golden mosaic bigeminivirus,** *Phaseolus vulgaris* 6158
- **Bean pod mottle comovirus,** *Glycine max* 8161
- **Bean yellow mosaic potyvirus**
  - *Nicotiana benthamiana,* genetic transformation 4311
  - *Phaseolus vulgaris* 9397
  - *Trifolium pratense* 7059
  - *Vigna aconitifolia* 11788
- **Beet cryptic I alphacryptovirus,** *Beta vulgaris,* sugarbeet 13192
- **Beet cryptic II betacryptovirus,** *Beta vulgaris,* sugarbeet 13192
- **Beet curly top intergeminivirus,** *Beta vulgaris,* sugarbeet, germplasm releases 9702
- **Beet mosaic potyvirus,** *Beta vulgaris,* sugarbeet 5436
- **Beet necrotic yellow vein furovirus**
  - *Beta vulgaris*
    - sugarbeet 3273, 10916, 13182
      - genetic engineering 5435
      - linkage 3269
      - restriction fragment length polymorphism 3269
- ***Begonia hiemalis,*** somaclonal variation 4387
- ***Begonia hirsuta***
  - inbreeding depression 998
  - outcrossing 998
- ***Begonia semiovata***
  - inbreeding depression 998
  - outcrossing 998
- ***Bellis perennis,*** saponins 12290
- ***Belonolaimus longicaudatus,*** *Stenotaphrum secundatum* 3907
- ***Bemisia tabaci***
  - *Cucumis melo* 11911
  - *Cucurbita pepo* 3096
  - Cucurbitaceae 11903
  - *Gossypium* 9755
  - *Gossypium hirsutum* 7420-7421
  - *Phaseolus vulgaris* 7105
- **Bentazone**
  - *Capsicum annuum*
    - genetics 4102
    - modifiers 4102
  - *Vigna unguiculata* 8223
- **Benzyladenine**
  - *Citrus maxima* 1914
  - *Lolium temulentum* 11628
  - *Lycopersicon esculentum* 11628
  - *Raphanus sativus*
    - genetics 3032
    - penetrance 3032
  - *Zea mays* 9058
- **Bergaptol *O*-methyltransferase,** *Petroselinum crispum,* gene expression 11108
- ***Bertholletia excelsa***
  - gene expression, albumins 4199
  - genetic engineering, albumins 4199
- ***Beta***
  - evolution 6460
  - gene banks 2025, 2283
    - databases 2024
  - genetic resources 2025-2028, 3267
    - databases 10902
    - gene banks 10902
  - genetic variation, isoenzymes 9709
  - germination 6456
  - interspecific hybridization 2039
  - isoenzymes 6460
  - molecular genetics, evolution 7381
  - seeds 6456
  - taxonomy 2037, 2039, 9709
- ***Beta adanensis***
  - flowers 2034
  - isoenzymes 2034
- ***Beta macrocarpa***
  - flowers 2034
  - isoenzymes 2034
- ***Beta maritima***
  - chloroplast genetics 5433
  - ecotypes 2038
  - flowers 2034
  - genetics
    - flowering 2032
    - vernalization 2032
  - interspecific hybridization 899, 5433, 10908, 10913, 13189
  - isoenzymes 2034
  - linkage
    - cytoplasmic male sterility 10908
    - isoenzymes 10908
  - mitochondrial genetics 5433
    - cytoplasmic male sterility 2031, 10907
  - morphology 2033
  - natural selection 5433
  - nucleocytoplasmic interaction, cytoplasmic male sterility 10907
  - protoplasts 7379
  - restriction fragment length polymorphism, bolting 13189
  - salinity 1815
  - tissue culture 6457
- ***Beta patula***
  - flowers 2034
  - isoenzymes 2034
- ***Beta procumbens,*** molecular genetics 2029
- ***Beta vulgaris***
  - ecotypes 2038
  - gene banks, databases 2024
  - *in vitro* culture 2036
  - interspecific hybridization 10913, 13189
  - molecular genetics 2029
  - restriction fragment length polymorphism, bolting 13189
  - taxonomy 2037
  - beetroots
    - *Cercospora beticola* 13191
    - gene location 10913
    - isoenzymes 10913
  - fodder beet
    - breeding, history 3034
    - *Cercospora beticola* 13191
    - gene location 10913
    - *in vitro* selection 2035
    - isoenzymes 10913
    - protoplasts 7379
    - salinity 1815
    - variety trials 5688
      - reports 631
    - varieties 10631
  - spinach beets, breeding 5164
  - sugarbeet
    - altitude 7377
    - artificial selection
      - respiration 13187
      - statistics 7579
    - beet cryptic I alphacryptovirus 13192
    - beet cryptic II betacryptovirus 13192
    - beet mosaic potyvirus 5436
    - beet necrotic yellow vein furovirus 3273, 10916, 13182
    - breeding 2023, 3272, 6434, 10901, 12111-12112
      - books 4519
      - history 4277
      - reports 898
    - *Cercospora beticola* 2041, 6462, 10915, 13182, 13191

- ***Beta vulgaris*** *cont.*
  - sugarbeet *cont.*
    - chromosome number 13185
    - cold 7377
    - combining ability
      - sugars 3271
      - yields 3271, 9703
    - crop density 5429
    - cytoplasmic male sterility 2023, 5427-5429, 9704, 12115
    - drought resistance 5434
    - dry matter 10912
    - *Erysiphe betae* 2041
    - fungi 2041
    - gene expression
      - adenosinetriphosphatase 9704
      - annual habit 10909
      - betaine-aldehyde dehydrogenase 12146
      - bolting 10909
      - *Cercospora beticola* 9710
      - chitinase 9710
      - enzymes 8526
      - pathogenesis-related proteins 9710
      - source sink relations 8526
    - gene location
      - lethals 12113
      - male sterility 12113
      - ribosomal RNA 13184
    - gene mapping 12113
      - cytoplasmic male sterility 9706
      - ribosomal RNA 13184
    - genetic engineering 3270
      - beet necrotic yellow vein furovirus 5435
      - betaine-aldehyde dehydrogenase 12146
    - genetic markers 11181
      - cytoplasmic male sterility 10908
      - isoenzymes, reviews 145
    - genetic resources 6434
    - genetic transformation 895
      - chloroplasts 12387
      - glufosinate 10058
    - genetic variance
      - bolting 897, 12116
      - cells 897
      - gibberellic acid 897
      - growth regulators 897
    - genetics
      - books 4519
      - cytoplasmic male sterility 9705
      - flowers 13188
      - monogerm seeds 13188
    - genotype environment interaction, necrotic yellow vein furovirus 6463
    - germination 5432
    - germplasm releases 9703
      - beet curly top intergeminivirus 9702
      - hybridization 9702
      - viruses 899
    - globulins 5431
    - haploidy 7380, 12115, 13190
    - herbicides 8531
    - heterosis
      - sugars 3271
      - yields 3271, 5426
    - hybrid seed production 2023, 5427-5429
    - hybrid varieties 3268, 5425
    - *in vitro* selection 2035, 4280
      - cold resistance 8530
    - inbreeding 7377
    - interspecific hybridization 899, 5433, 10908
    - linkage
      - beet necrotic yellow vein furovirus 3269
      - cytoplasmic male sterility 9707, 10908
      - monogerm seeds 3269
      - seedlings 3269
    - male sterility 3272
    - mitochondrial genetics 4278
      - cytoplasmic male sterility 4279, 7378, 9706-9707, 10907
    - molecular genetics 8525, 12114
    - monogerm seeds 3268
- ***Beta vulgaris*** *cont.*
  - sugarbeet *cont.*
    - nucleocytoplasmic interaction, cytoplasmic male sterility 10907
    - nucleotide sequences 4278
      - adenosinetriphosphatase 9704
      - chitinase 9710
    - nutrients 2040
    - ovule culture 7380, 12115, 13185, 13190
    - *Peronospora schachtii* 2041
    - photosynthesis 5430
    - plant embryos 12115
    - pollination 5427
    - polyploidy 896, 2030, 3268
    - protoplasts 6458, 7379
    - quality 8529
    - random amplified polymorphic DNA, cytoplasmic male sterility 13186
    - reciprocal effects 896
    - restriction fragment length polymorphism 11181, 12113
      - beet necrotic yellow vein furovirus 3269
      - monogerm seeds 3269
      - seedlings 3269
    - salinity 2040
    - seedlings 10910-10911
    - self compatibility 5428, 7377
    - solar radiation 9708
    - somaclonal variation 4280
    - sowing date 13182-13183
    - stability 6461
    - sucrose 10912
    - sugars 10910-10911
    - tissue culture 6457, 6459, 8527-8528
    - ultraviolet radiation 4280
    - variety classification 145, 5431
    - variety trials 898, 5688, 7376, 10903-10905, 13182-13183
    - yield correlations 10914
    - varieties 898
      - Druzhba MS34 2413
      - L'govskiĭ MS35 2413
      - Melody 10906
      - Oriks 2413
      - Ramonskiĭ MS46 2413
      - Slavyanksiĭ MS94 3268
      - Ukrainskaya MS70 3268
      - Yaltushkovskaya Odnosemyannaya-64 3268
- **Betaine,** *Triticum aestivum* 2518
- **Betaine-aldehyde dehydrogenase**
  - *Beta vulgaris*
    - sugarbeet
      - gene expression 12146
      - genetic engineering 12146
  - *Nicotiana tabacum,* genetic transformation 12146
  - *Spinacia oleracea*
    - gene expression 12146
    - genetic engineering 12146
- ***Betula glandulosa***
  - pollination 5523
  - reproduction 5523
- ***Betula humilis***
  - fruits 7439
  - genetic variation 4348
  - interspecific hybridization 7439
  - leaves 7439
- ***Betula nana,*** interspecific hybridization 7439
- ***Betula papyrifera,*** pollen germination 9771
- ***Betula pendula***
  - breeding 3341
  - gene expression, plant embryos 971
  - interspecific hybridization 7439
  - molecular genetics, plant embryos 971
  - polyploidy 12183
  - provenance trials 3341
  - tissue culture 10991
- ***Betula pubescens,*** interspecific hybridization 7439
- ***Betula tortuosa,*** interspecific hybridization 7439
- **Betulaceae**
  - chloroplast genetics
    - evolution 3339-3340
    - ribulose-bisphosphate carboxylase 3339-3340
- **Bibliographies**
  - crops
    - evolution 7676
    - insects 1118
    - taxonomy 7676
  - forest trees, biotechnology 13257
  - genetic engineering 12385
  - genetic transformation 12386
  - *in vitro* culture 11248
- **Biennial habit,** *Foeniculum vulgare* 7554
- **Bilanafos**
  - *Triticum aestivum,* genetic transformation 265
  - *Zea mays,* genetic transformation 9167
- **Binding proteins**
  - *Anemia phyllitidis,* gene expression 6596
  - *Arabidopsis thaliana*
    - gene expression 1155
    - molecular genetics 1155, 7623
    - nucleotide sequences 7628
  - *Lycopersicon esculentum*
    - gene expression 665
    - molecular genetics 665
  - *Nicotiana sylvestris*
    - gene expression 10933
    - nucleotide sequences 10933
  - *Nicotiana tabacum,* nucleotide sequences 13208
  - *Oryza sativa*
    - gene expression 12721
    - molecular genetics 403
    - nucleotide sequences 403, 12721
  - *Phaseolus vulgaris,* gene expression 6159
- **Biographies,** breeding 11943
- **Biomass**
  - *Hordeum vulgare* 4655-4656
  - *Pseudotsuga menziesii* 8653
  - *Triticum aestivum* 4655-4656
    - artificial selection 3621
    - heritability 3621
    - history 2479
- **Biotechnology** 3493, 4572, 6664, 7578, 7605-7606, 11179, 11181-11182, 12334, 12378
  - books 13414, 13418
  - *Brassica napus,* rape, reviews 822, 3193
  - *Citrus* 7304
  - crops
    - conferences 2252
    - reviews 11172
  - *Dendranthema grandiflora* 13329
  - *Dianthus caryophyllus* 13329
  - *Dioscorea* 3031
  - fatty oil plants 3187, 13121
  - forest trees 5518
    - bibliographies 13257
  - genetic resources 1101
  - *Gerbera jamesonii* 13329
  - grain legumes, nutritive value, reviews 4979
  - *Helianthus annuus,* reviews 3218
  - heterosis 2373
    - reviews 1183
  - hybrid varieties 2373
  - *Musa* 3170
  - ornamental plants 13329
  - *Oryza sativa* 1529, 2727
  - *Pisum sativum* 6171
  - *Rosa* 13329
  - *Solanum melongena* 684
  - *Sorghum bicolor* 1475
  - techniques 1125
  - trees 5517
  - *Zea mays* 11415
- **Bipolaris** (*see Cochliobolus)*
- ***Bipolaris halodes,*** *Cocos nucifera* 6404
- ***Bipolaris sacchari,*** *Saccharum officinarum* 9701
- **Birds**
  - *Helianthus annuus,* germplasm releases 12062
  - *Sorghum bicolor* 364, 1484
  - *Zea mays* 7968
- **1,4-Bisdiazoacetylbutane,** *Triticum aestivum* 10084
- **Bitter acids,** *Humulus lupulus* 9943
- ***Bixa orellana,*** *Milghitea melanoleuca* 11114
- **Black spot,** *Solanum tuberosum* 1795, 10609
- **Blackeye cowpea mosaic potyvirus,** *Vigna unguiculata* 8221

Blandfordia grandiflora
  ovules 9874
  self compatibility 9874
  self pollination 9874
Blissus leucopterus leucopterus, *Sorghum bicolor* 1488
Blossom-end rot, *Lycopersicon esculentum,* genetics 1846
Blumeriella jaapii
  Prunus, cherries 8403
  Prunus avium 10751, 11965
  Prunus cerasus 11965
Boehmeria
  chromosome morphology 10986
  chromosome number 10986
Boehmeria nivea
  gamma radiation 2105
  genetic resources 12170
  genetic transformation 959
  heterosis, yield components 964
  inbreeding 5513
  induced mutations 2105
  photoperiodism 13250
  polyploidy 2107, 8581
  sex 12173, 13250
  variety trials 12170
  varieties 2105
    Chuanzhu 4 10985
    Huazhou-1 3336
Boerhavia, chemotaxonomy 9851
Boletus edulis
  chromosome number 11124
  chromosome pairing 11124
Bolting
  Allium cepa 5145
  Beta maritima, restriction fragment length polymorphism 13189
  Beta vulgaris
    restriction fragment length polymorphism 13189
    sugarbeet
      gene expression 10909
      genetic variance 897, 12116
  Brassica campestris, turnips, chromosome addition 3993
  Brassica oleracea, kale, chromosome addition 3993
  Brassica × *Raphanus,* chromosome addition 3993
  Raphanus sativus, chromosome addition 3993
Bombyx
  Morus alba 6315
  Morus atropurpurea 6315
Bombyx mori, *Morus* 5306
Books
  Acer, taxonomy 7575
  Advances in horticulture — volume 3 3483
  Advances in horticulture — volume 1 4116-4119, 4122, 4132, 4153-4155, 4165-4172, 4175-4176, 4182-4183, 4186, 4189-4192, 4518
  Advances in horticulture — volume 2 4639
  Advances in horticulture — volume 5 4644, 5019, 5041, 5069, 5082, 5084, 5140, 5147, 5163-5164, 5168, 5192, 5196-5197, 5204, 5219, 5700
  Advances in horticulture — volume 7 10563-10564, 10578, 10584, 10592, 11134
  Advances in oilseeds research 5343-5347, 5359, 5371, 5375-5376, 5406, 5706
  Allium
    breeding 13415
    genetics 13415
    taxonomy 13415
  Ancient DNA 7598, 7608-7610, 7613, 8761
  Angiosperm pollen and ovules 1144-1145, 1203-1204, 1206, 1216, 1230, 1235, 1240, 1246, 1310, 1415-1417, 1428, 1431, 1434, 1464-1465, 1470, 1505, 1544, 1627, 1654, 1656, 1783, 1810, 1818, 1837, 1898, 1922-1923, 1938, 1943-1944, 2061-2066, 2072, 2101, 2176, 2181-2182, 2186-2188, 2198, 2209, 2211, 2214,

Books *cont.*
  Angiosperm pollen and ovules *cont.* 2220, 2269, 3042, 3282, 3406, 3414, 3428
  angiosperms
    pollen 2269
    self incompatibility 2269
    sexual reproduction 2269
  Arachis hypogaea
    cytology 9950
    genetics 9950
  Arum, taxonomy 5701
  Beta vulgaris
    sugarbeet
      breeding 4519
      genetics 4519
  biotechnology 13414, 13418
  breeding 13420
  Causes of photooxidative stress 8780-8783, 8785, 9029, 9951
  computer programming 5707
  Conservation biology: a training manual 1, 13-17, 85, 128, 967-968, 970, 1078
  crops
    breeding 9949, 11136
    domestication 2271
    insects 13416
    viruses 3451
  cytogenetics 5705
  Dioscorea
    breeding 12315
    taxonomy 12315
  Eucalyptus
    breeding 7574
    genetic resources 7574
  fatty oil plants, breeding 5706
  forest trees
    clones 2264
    genetic resources 12314
  fruit crops, cytology 12326
  gene expression 12324
    stress 2266
  Genes involved in plant defense 2306-2308, 3309, 3455, 3477-3479
  genetic engineering 12322-12323
    diseases 5704
    pests 5704
    techniques 13422
  Genetic engineering, molecular biology and tissue culture for crop pest and disease management 5730-5737, 5744-5745, 5747, 5847, 6007, 6042, 6235, 6611, 6632
  Genetic improvement of field crops 10070, 10154, 10195, 10218, 10369, 10480, 10565, 10855, 10956, 11136
  genetic resources 1079, 2272, 3456, 13417
  genetics, history 2267
  genomes 12324
  Grevillea, taxonomy 2263
  Hordeum vulgare
    breeding 7577
    quality 7577
  In vitro cultivation of plant cells 5808-5813, 6633
  in vitro culture 9947
  Magnolia, breeding 7573
  Mangifera, taxonomy 11133
  mathematics 5707
  Methods in plant molecular biology and biotechnology 2322-2337, 2355, 3454
  Molecular biology of flowering 1120, 1160, 1195-1199, 1237-1238, 2265
  molecular genetics 11137, 12316, 12320-12321, 13414
    development 9948
    enzymes 12319
    flowering 2265
    pathogens 2262
    techniques 12319, 13422
  mutations 12324
  nucleotide sequences 12317-12318
  Oat science and technology 4783-4785, 4787-4791, 4793-4794, 5699
  Olea europaea, varieties 3458
  Orchidaceae, tissue culture 7572

Books *cont.*
  Origin, evolution and diversity of Cuban plant genetic resources 12338-12344, 12777, 12871, 12953, 12960, 12966, 12993, 13158, 13221, 13248, 13328, 13419
  Papaveraceae, taxonomy 4517
  Peas: genetics, molecular biology and biotechnology 6169-6171, 6175-6176, 6179-6181, 6189, 6191, 6196, 6631
  Photosynthesis: photoreactions to plant productivity 2276, 2347, 2497, 3453
  physiology 3452
  Plant biochemistry and molecular biology 4570-4572, 4633, 5709
  Plant breeding — principles and prospects 5-9, 19-20, 29, 32, 34, 53-55, 88-92, 98-99, 103, 111-112, 114-117, 122-123, 501, 1081
  Plant mitochondria 9976-9980, 9996, 10001, 10059, 10079, 10088, 10163, 10231-10232, 10266, 10307, 10505, 10520, 10567, 10857-10858, 10907, 10935, 11058, 11076, 11135
  Plant molecular biology labfax 9983-9988, 9998-9999, 10051, 11137
  Plant responses to the environment 1112, 1122-1123, 1677, 1697, 2075, 2199, 2266
  plants, evolution 2268
  pollination 11132
  Potato genetics 11789-11790, 11801, 11805, 11807-11809, 11812-11813, 11818, 11824-11825, 11827, 11829-11830, 11836, 11838-11840, 11842, 11844, 12325
  Progress in plant growth regulation 38, 44, 69-70, 77, 83, 144, 146-148, 150, 155, 267-268, 324, 326, 506, 549, 661, 671, 674, 724, 821, 909-910, 914-916, 927-928, 1077
  quantitative genetics 4523
  statistics 5707-5708
  taxonomy 4521
    multivariate analysis 4520
  Transgenic organisms: risk assessment of deliberate release 4, 50-52, 87, 1080
  woody plants, tissue culture 5702
  Zea mays
    genetics 3457
    in vitro culture 3457
    molecular genetics 3457
Boron
  Brassica napus, rape 1945
  Glycine max 1711-1712
  Malus pumila 7252
  Nicotiana tabacum, in vitro selection 5459
  Pisum sativum 10525
  Triticum aestivum 10121
    combining ability 2512
    genetics 2513
Bothriochloa ischaemum
  isoenzymes 10418
  pollution 10418
Botryodiplodia hypodermia, *Ulmus pumila* 3348
Botryosphaeria bereneriana, *Malus pumila* 7255
Botryosphaeria dothidea, *Malus pumila* 3116
Botryosphaeria obtusa, *Malus pumila* 3116
Botryotinia *(see Sclerotinia)*
Botrypus strictus
  molecular genetics
    ribulose-bisphosphate carboxylase 8726
    taxonomy 8726
  nucleotide sequences, ribulose-bisphosphate carboxylase 8726
Botrytis *(see also Sclerotinia)*
  Pisum sativum 5058
  Vicia faba 8169
Botrytis cinerea
  Cicer 572, 1754, 12911
  Cicer arietinum 10539-10543, 12911
  Cicer echinospermum 572
  Cicer pinnatifidum 572

Botrytis cinerea *cont.*
- *Fragaria ananassa,* combining ability 3150
- *Helianthus annuus* 7353
- *Linum usitatissimum,* linseed 8466
- *Malus pumila* 3119
- *Nicotiana tabacum*
  - gene expression 3298, 6499
  - genetic transformation 3298, 6499
- *Rosa hybrida* 3385
- *Solanum tuberosum* 5109
- *Vitis vinifera* 3164
  - artificial selection 3165

Botrytis squamosa
- *Allium cepa,* molecular genetics 1817
- *Allium roylei,* molecular genetics 1817

Bougainvillea
- chemotaxonomy 9851
- gamma radiation 2163
- induced mutations
  - chlorophyll 2163
  - variegation 2163

Bouteloua curtipendula
- habit 4933
- internodes 4933

Bouteloua eriopoda
- photosynthesis 4932
- temperature 4932

Bouteloua gracilis
- photosynthesis 4932
- temperature 4932

Bouteloua rigidiseta
- competitive ability 10414
- fertility 10414

Brachiaria, taxonomy 1646

Brachiaria atrisola, taxonomy 2814

Brachiaria holosericea, taxonomy 2814

Brachycome
- varieties
  - Blue Haze 3388
  - Lemon Drops 3388
  - Pink Haze 3388

Brachypodium, restriction fragment length polymorphism, taxonomy 9277

Brachypodium distachyon, molecular genetics, evolution 6735

Brachypodium sylvaticum, restriction fragment length polymorphism 11282

Brachystelma christianeae, taxonomy 11097

Brachystelma lutea, taxonomy 11099

Bradyrhizobium
- *Arachis hypogaea* 7366
- *Glycine max* 7090, 10488, 11723, 11725
  - gene expression 520
  - genetics 9362
  - mutations 522
- *Glycine tomentella,* gene expression 520

Brassica
- aneuploidy 9664
- anther culture 12029
- breeding 9659
- cytoplasmic male sterility, reviews 11864
- diploidy 9664
- diseases 12029
- ethylene 836
- evolution 3196
- gene expression, *Xanthomonas campestris* 1959
- genetic markers 12029
  - isoenzymes, reviews 145
- genetic resources, databases 7318
- genetics
  - *Sclerotinia sclerotiorum* 12052
  - turnip mosaic potyvirus 12052
  - *Xanthomonas campestris* 1959
- genomes 1956
  - *Phyllotreta cruciferae* 1960
- growth regulators 836
- *in vitro* culture 836
- intergeneric hybridization 1938
- interspecific hybridization 1938, 1956
- male sterility 12029
  - reviews 11864
- molecular genetics, self incompatibility 1946, 6344, 12448
- *Mycosphaerella brassicicola* 10851
- oils 12029
- ozone 8484
- polyploidy 1956
- protoplast fusion 3196

Brassica *cont.*
- random amplified polymorphic DNA 13124
- restriction fragment length polymorphism 13124
  - genomes 3195
- selenium 12051
- self incompatibility 12029
- soil toxicity 12051
- tissue culture 1938, 1956
- variety classification 145
- variety trials 7320
- Chinese cabbages
  - genetics, turnip mosaic potyvirus 3048
  - heat resistance 6253
  - isoenzymes 12975
  - *Plasmodiophora brassicae* 12975
  - variety classification 8774
- rape, nutritive value 13140

Brassica adpressa
- chromosome pairing 7324
- herbicides 7324
- interspecific hybridization 7324, 12037
- *Leptosphaeria maculans* 12037

Brassica alboglabra
- chromosome addition 4219
- chromosome morphology 12036
- chromosome pairing 12036
- chromosome transmission 4219
- fertility 12036
- gene expression, self incompatibility 3553
- genetic variation, isoenzymes 11865
- genetics
  - erucic acid 4219
  - self incompatibility 6343
- interspecific hybridization 4219, 6343, 12036
- meiosis 12036
- molecular genetics
  - kinases 4030
  - self incompatibility 3553, 4030
- okadaic acid 5149
- phosphatases 5149
- pollination 6343
- self incompatibility 5149
- toxic substances 5149

Brassica bourgeaui, interspecific hybridization 3197

Brassica campestris
- aneuploidy 9664
- anthers 829
- breeding, reviews 5344
- chimaeras 8473
- chromosome addition 4219
- chromosome pairing 6341
- chromosome transmission 4219
- cold resistance 5376
- cytology 829
- cytoplasmic male sterility 13130
- cytotaxonomy 829
- diploidy 9664
- gene banks 5345
- gene expression, self incompatibility 4029
- genetic resources 5345
- genetics 10842
  - erucic acid 4219
  - self incompatibility 6343, 7327
- grafting 8473
- growth period 10842
- heterosis
  - forage 1950
  - yield components 1950
- interspecific hybridization 1950, 3197, 3199, 4209, 4219, 6341, 6343, 7326, 13130
- linkage 6250
- mitochondrial genetics 7326
- molecular genetics
  - glycoproteins 9663
  - ribosomal DNA 3194
  - self incompatibility 9663
- mutations, phytochrome 80
- nucleotide sequences
  - glycoproteins 9663
  - self incompatibility 9663
- *Plasmodiophora brassicae* 4225
- pollination 6343
- protoplast fusion 4209, 7326

Brassica campestris *cont.*
- restriction fragment length polymorphism 6250
- tissue culture 8473
- waterlogging 9671
- sarson
  - *Albugo candida* 8489, 12974
  - anthers 829
  - breeding 5347
  - cytology 829
  - cytotaxonomy 829
  - *Delia* 12054
  - gamma radiation 1941
  - genetic variance, yield components 10844
  - genetics, erucic acid 13133
  - heritability, yield components 835
  - induced mutations
    - *Alternaria* 1941
    - yield components 1941
  - interspecific hybridization 13133
  - pollen 5377
  - quality 839
  - reviews 5347
  - salinity 5377
  - yield correlations 835
- toria
  - *Albugo candida* 8489
  - breeding, reviews 5346
  - genotype environment interaction
    - sowing date 6351
    - yield components 6351
  - heterosis, yields 1936, 1949
  - interspecific hybridization 1949
  - stability, yield components 10845
- turnip rape
  - artificial selection, *Phyllotreta cruciferae* 7331
  - breeders' rights, history 4522
  - breeding 6434
    - history 4522
  - chromosome pairing 5356
  - dormancy 3202
  - fatty acids 13139
  - flowers 5356
  - fruits 5356
  - gene flow 3202
  - genetic distance, yield components 1939
  - genetic resources 6434
  - germination 3202
  - glucosinolates, techniques 7328
  - heterosis, yield components 1939
  - interspecific hybridization 3200, 5356
  - leaves 5356
  - nucleotide sequences, thioglucosidase 5350
  - *Phyllotreta cruciferae* 7332
  - protoplasts 4218
  - random amplified polymorphic DNA, variety classification 12034
  - regenerative ability 1958
  - tissue culture 1958, 13138
  - wide hybridization 3202
  - varieties, Eldorado 1932
- turnips
  - anthers 829
  - breeding 5084
  - chromosome addition
    - bolting 3993
    - roots 3993
  - combining ability, yield components 3016
  - cytology 829
  - cytotaxonomy 829
  - fertility 619
  - gamma radiation 619
  - genetic variation, isoenzymes 11865
  - germination 10617
  - mitochondrial genetics, NADH dehydrogenase 618, 8311
  - molecular genetics, cauliflower mosaic caulimovirus 5122
  - temperature 10617

Brassica carinata
- *Albugo candida* 12974
- breeding, reviews 5344
- chromosome pairing 12041
- combining ability, yield components 10843
- fertility 10838

Brassica carinata *cont.*
  gene banks 5345
  genetic resources 5345
  genetics
    colour 8482, 13135
    flowers 8482
    growth period 12041
    seeds 13135
  interspecific hybridization 10838, 12035, 12039, 12041, 13135
  pollen 5377
  salinity 5377
  yield components 10838
Brassica chinensis
  anther culture 10642
  interspecific hybridization 6342
  male sterility 6342
  variety trials 639
Brassica cretica, interspecific hybridization 3197
Brassica juncea
  Albugo candida 8489, 9672, 12974
  anther culture 4217, 12044
  anthers 829
  breeding 5343, 5359
    reviews 5344
  chloroplast genetics
    chlorophyll 8476
    chlorosis 8476
  chromosome pairing 12040
  Cicer arietinum, crop mixtures 8208
  combining ability
    Albugo candida 10849
    growth period 832
    yield components 834, 1951
    yields 10849
  cytology 829
  cytoplasmic male sterility 13130
  cytotaxonomy 829
  Delia 12054
  drought resistance 4223
  erucic acid 5371
  fatty acids 5371
  fertilization 1944, 8474
  forage 4221
  gene banks 5345
  genetic distance 8471
    yield components 1939
  genetic resources 5345
  genetic variance, seedlings 8481
  genetics
    colour 13135
    growth period 12040
    leaves 12044
    seeds 12044, 13135
  genotype environment interaction, yield components 1953
  glucosinolates 10847
  haploidy 12044
  heritability
    Alternaria 3207
    seedlings 8481
  heterosis 8471
    forage 1950
    yield components 1939, 1950, 4215
  incompatibility 8474
  induced mutations
    glucosinolates 3204
    linolenic acid 3204
    reviews 5359
  interspecific hybridization 1942, 1950, 7326, 8474, 8476, 9672, 12040, 13130, 13135
  linolenic acid 5371
  Lipaphis erysimi 5379, 10853
  mitochondrial genetics 7326
    cytoplasmic male sterility 8476
  nucleotide sequences, ACC synthase 7321
  nutrients 4223
  oils 5371, 10847
  Phyllotreta cruciferae 7332
  pollen 5377
  pollen competition 1944
  pollination 8474
  potassium 4223
  protoplast fusion 7326, 8476
  radiation 5359
  radionuclides 5359
  random amplified polymorphic DNA 8471

Brassica juncea *cont.*
  reciprocal effects, yield components 834
  recombination
    chlorophyll 8476
    chlorosis 8476
  restriction fragment length polymorphism, somaclonal variation 826
  salinity 5377
  tissue culture 12048, 13137
  variety trials 7320
  waxes 9672
  yield correlations 1955, 10846
Brassica montana, interspecific hybridization 3197
Brassica napus
  Albugo candida 8489, 9672
  cell culture 1957
  fertilization 8474
  gene banks 5345
  gene expression
    β-glucanase 4203
    self incompatibility 4029
  genetic resources 5345
  heterosis
    forage 1950
    yield components 1950
  incompatibility 8474
  interspecific hybridization 1950, 7326, 8474, 9672, 10838
  maternal effects, glucosinolates 10848
  mitochondrial genetics 7326
  molecular genetics 4209
    self incompatibility 6344
  nucleotide sequences
    chloroplasts 9660
    β-glucanase 4203
    thioglucosidase 1933
  pollination 8474
  protoplast fusion 7326
  protoplasts 1957
  restriction fragment length polymorphism 13125
  waxes 9672
  rape
    abscisic acid 4207
    Alternaria brassicae 6352, 9674
    anatomy 6346
    anther culture 1215, 6347, 8475, 10839, 12038
    artificial selection 4200
      cytoplasmic male sterility 12039
      erucic acid 3203
      glucosinolates 7329
      yield components 3191
    Aspergillus alutaceus 12569
    backcrossing 1942
    biotechnology, reviews 822, 3193
    boron 1945
    breeders' rights, history 4522
    breeding 1928-1929, 5343, 5348, 6434, 7319
      history 4522
      quality 9669
      reviews 5344
    cell culture 5369
    chloroplast genetics 10837
    chromosome addition, *Leptosphaeria maculans* 10850
    chromosome pairing 5356, 6341, 7324, 12040-12041
    cold resistance 3190
    colour 1947
    combining ability
      anatomy 12043
      seedlings 12043
      yield components 5368
    cryopreservation 9668
    cytoplasmic male sterility 827, 833, 1940, 7323, 13129-13130
    Delia 12054
    dihydrozeatin 4212
    diseases 8487
    drought resistance 4223
    erucic acid 3190, 3205, 5374, 13141
    fatty acids 4222
    fertility 10838
    flowers 4212, 5356
    fruits 5356
    fungicides 8486-8487
    gamma radiation 12047
    gene expression 823, 1934, 6666

Brassica napus *cont.*
  rape *cont.*
    gene expression *cont.*
      acetohydroxyacid synthase 12033
      acyl-acyl-carrier-protein desaturase 4213, 10836
      acyl carrier protein thioesterase 4205
      acyl-CoA desaturase 13122
      anthers 5363
      chaperonins 824-825
      chloroplasts 824
      cold 5353
      cruciferin 5352, 12045-12046
      fertility 5363
      glycoproteins 4210
      isocitrate lyase 8477
      isoenzymes 4208
      malate synthase 8477
      napin 4204, 4216, 12045
      oleosins 821, 4213, 6340
      phosphinothricin acetyltransferase 8478
      plant embryos 11274
      pollen 1943, 5354, 8477
      polygalacturonase 5354
      proline-rich proteins 5365
      proteins 8469
      seeds 4213
      self incompatibility 4210
      senescence 13134
      shedding 5365-5366
      thioglucosidase 4208
    gene flow 6354, 8478
    genetic distance 8470
    genetic engineering 3211
      acyl-CoA desaturase 13122
      chaperonins 825
      erucic acid 5373
      fatty acids 5373, 6348
      isocitrate lyase 8477
      lipids 12382
      malate synthase 8477
      napin 4204
      oleosins 6340
      pollen 8477
    genetic resources 6434
    genetic transformation 3211, 4206-4207, 5349, 5355, 7322, 9662
      anthers 5363
      fertility 5363
      glufosinate 841, 6354, 10058
      glufosinate acetyltransferase 7688
      herbicides 841, 5380, 6354
      male sterility 6345
      oleosins 8812
      phosphinothricin acetyltransferase 8478
    genetic variance, erucic acid 5370
    genetics
      colour 9666, 13135
      cytoplasmic male sterility 1942, 10841
      glucosinolates 3206, 9667
      growth period 12040-12041
      Phyllotreta cruciferae 3212
      seeds 9666, 13135
      self incompatibility 3200, 6343
      vernalization 9666
    germination 833, 10617
    glucosinolates 3190, 3205, 5372, 5374, 6349-6350, 6352, 8479, 8483, 10847, 10852, 12049-12050, 13141
      techniques 7328
    growth regulators 833, 4207
    haploidy 5348, 5360, 6341, 9666, 10839, 12038
    harvest index 831
    herbicides 7324, 12053
    heterosis
      anatomy 12043
      seedlings 12043
      yield components 1937, 1952, 5367-5368
      yields 1949
    hybrid seed production 827, 1940, 7323
    hybrid varieties 7323
    in vitro selection
      chlorsulfuron 4226

Brassica napus *cont.*
  rape *cont.*
    in vitro selection *cont.*
      ergosterol 3209
      herbicides 4226
      Leptosphaeria maculans 3209-3210, 4224
    inbreeding depression 12028
    induced mutations, oils 12047
    insects 6349
    intergeneric hybridization 12037
    interspecific hybridization 1942, 1949, 3199-3200, 5356, 6342-6343, 7324, 12035, 12039-12041, 13130, 13135
    irrigation 5374
    leaves 5356
    legislation 7322
    Leptosphaeria maculans 3208, 8466, 8486, 9673-9674, 12037
    linkage 6341
    Lipaphis erysimi 7330
    lodging 5364, 6346
    male sterility 1940, 4212, 13141
    mitochondrial genetics 823, 4564, 10837
      adenosinetriphosphatase 830
      cytoplasmic male sterility 830, 4211, 5361-5362, 9665
    molecular genetics 1934
      acyl-CoA desaturase 1154
      Leptosphaeria maculans 6353
      lipids 12382
      oleosins 13294
      Plasmodiophora brassicae 6353
      Pyrenopeziza brassicae 6353
      senescence 13134
    mutations
      atrazine 3213
      chlorsulfuron 4226
      herbicides 3213, 4226
      photosynthesis 3213
    nectaries 1942
    nucleocytoplasmic interaction, male sterility 6342
    nucleotide sequences
      acetohydroxyacid synthase 12033
      acyl-acyl-carrier-protein desaturase 10836
      acyl carrier protein thioesterase 4205
      acyl-CoA desaturase 13122
      adenosinetriphosphatase 1935
      chaperonins 12030-12031
      cold 5353
      cruciferin 12046
      fructose-bisphosphatase 8468
      glutamate-ammonia ligase 5351, 12032
      glycoproteins 4210
      oleosins 6340, 13294
      pollen 5354
      polygalacturonase 5354
      proline-rich proteins 5365
      proteins 8469
      self incompatibility 4210
      senescence 13134
      shedding 5365-5366
    nutrients 4223, 5884, 6350
    nutritive value 5374
    oils 3190, 3205, 10847
    outcrossing 6354
    Peronospora parasitica 3199, 8466, 10852
    phenolic compounds 4220
    Phyllotreta cruciferae 7332
    plant composition 12049-12050
    Plasmodiophora brassicae 4225
    pollen 1215, 8475
    pollen germination 1945
    pollination 6343, 8478
    potassium 4223
    proteins 5374
    protoplast fusion 5361
    protoplasts 838, 5369
    Pyrenopeziza brassicae 8466
    quality 7319
    random amplified polymorphic DNA 8470
      cytoplasmic male sterility 13132
      variety classification 4214

Brassica napus *cont.*
  rape *cont.*
    regenerative ability 837, 1958
    restriction fragment length polymorphism 6341, 8470, 9661
      cytoplasmic male sterility 4211
      glucosinolates 6349
      Sclerotinia sclerotiorum 3189, 8467, 9674
    seeds 1947
    self incompatibility 10840
    somaclonal variation 5369
    spring and winter habit 3201
    stems 5364, 6346
    storage, seeds 12042
    sulfur 6350, 8479
    techniques, *Leptosphaeria maculans* 8485
    temperature 1947, 10617
    tissue culture 837, 1958, 3567
    triazines 12053
    trypsin inhibitors 8480
    turnip mosaic potyvirus 5378
    variety trials 139, 3192, 3201, 4201-4202, 5688
    vernalization 13136
    Verticillium dahliae 8488
    waxes 7330
    yield components 10838
    yield correlations 1954, 10846
    varieties 4646
      AC Elect 1930
      AC Excel 1931
      AC Tristar 820
      Profit 818
      Tribute 819
  swedes
    artificial selection 10616
    Delia floralis 3017-3018
    Delia radicum 3018
    experimental design 10616
    germination 10617
    germplasm releases, *Erysiphe cruciferarum* 620
    sugars 3017
    temperature 10617
    varieties 5121
      Kvimar 5120
Brassica nigra
  chromosome addition, *Leptosphaeria maculans* 10850
  gene banks 5345
  genetic resources 5345
  genetics, *Leptosphaeria maculans* 10850
  interspecific hybridization 3199, 7326
  mitochondrial genetics 7326
  nucleotide sequences 13123
  polymerase chain reaction 13123
  protoplast fusion 7326
Brassica oleracea
  Albugo candida 12974
  aneuploidy 9664
  chimaeras 8473
  chromosome pairing 6341
  diploidy 9664
  gene banks 12970
  gene expression
    anthers 3042
    glycoproteins 3042
    self incompatibility 3041, 4029
  genetic engineering, self incompatibility 3041
  genetics, self incompatibility 7327
  grafting 8473
  interspecific hybridization 4209, 6341, 7326
  isoenzymes 12970
  linkage 6250
  mitochondrial genetics 7326
  molecular genetics, self incompatibility 3042
  pollen 1818
  pollination 1818
  protoplast fusion 4209, 7326
  protoplasts 4033, 8306-8307, 11866
  regenerative ability 11866
  restriction fragment length polymorphism 6250
  self incompatibility 1818
  tissue culture 8473
  variety classification 12970

Brassica oleracea *cont.*
  broccoli
    anther culture 4034-4035
    cell culture 9518
    cytoplasmic male sterility 5148
    desiccation 4034
    Erwinia 8308
    gene mapping 10640
    genetic transformation 643, 12972
    genetic variation, isoenzymes 11865
    genetics, quantitative traits 4028
    growth period 4036
    heat resistance 4036
    phenylalanine ammonia-lyase 5148
    plant composition 5152
    plant embryos 4034
    Plasmodiophora brassicae 10643
    pollen 5148
    protoplasts 9518
    Pseudomonas 8308
    random amplified polymorphic DNA 8304
    restriction fragment length polymorphism 4028, 8304, 9517
      Plasmodiophora brassicae 3047
    tissue culture 643, 4032, 9518, 12972
    wide hybridization 4028
  Brussels sprouts
    crop density 5153
    gene mapping 10640
    interspecific hybridization 6342
    male sterility 6342
    Mycosphaerella brassicicola 3046
  cabbages
    abscisic acid 4207
    breeding 6247
    chromosome pairing 7324
    cytoplasmic male sterility 1940
    Fusarium oxysporum 10645
    genetic resources 6247
    genetic transformation 643, 4207, 8303, 12972
    genetic variation, isoenzymes 11865
    genetics, quantitative traits 4028
    growth period 10639
    growth regulators 4207
    Hellula undalis 10639
    herbicides 7324
    hybrid seed production 1940, 5150
    hybrid varieties 641
    interspecific hybridization 7324
    male sterility 1940
    multivariate analysis, taxonomy 3044
    Mycosphaerella brassicicola 3046, 10644
    planting date 5150
    Plasmodiophora brassicae 4225, 10643
    polymerase chain reaction, self incompatibility 10641
    random amplified polymorphic DNA 8304
    restriction fragment length polymorphism 4028, 8304, 9517
      self incompatibility 10641
    seed production 5150
    tissue culture 643, 5837, 12972
    variety trials 640, 11863
    wide hybridization 4028
    yield components 10639
    cauliflowers, Brussels sprouts, kale, kohlrabi, breeding 5147
  cauliflowers
    anther culture 3043
    anthers 829
    cold resistance 6252
    cytology 829
    cytoplasmic male sterility 1940
    cytotaxonomy 829
    gene mapping 10640
    genetic variation, isoenzymes 11865
    genetics, male sterility 642
    haploidy 3043
    hybrid seed production 1940
    male sterility 1940
    Mycosphaerella brassicicola 3046
    Pieris brassicae 644
    protoplasts 7199
    Pseudomonas syringae 3045
    random amplified polymorphic DNA 8304

- ***Brassica oleracea*** *cont.*
  - cauliflowers *cont.*
    - random amplified polymorphic DNA *cont.*
      - hybrid seed production 7198
    - restriction fragment length polymorphism 8304, 9517
      - *Plasmodiophora brassicae* 3047
    - tissue culture 5151
  - kale
    - *Ascia monuste orseis* 5154, 7200
    - chromosome addition
      - bolting 3993
      - roots 3993
    - chromosome pairing 7324
    - cytoplasmic male sterility 1940
    - genetic transformation 12971
    - genetic variance, *Plasmodiophora brassicae* 9519
    - genetic variation, isoenzymes 11865
    - genetics, self incompatibility 6343
    - germination 10617
    - herbicides 7324
    - heritability, *Plasmodiophora brassicae* 9519
    - hybrid seed production 1940
    - interspecific hybridization 6251, 6343, 7324
    - *Lipaphis erysimi* 7330
    - male sterility 1940, 6251
    - multivariate analysis, taxonomy 3044
    - *Pieris rapae* 11867
    - *Plasmodiophora brassicae* 10643
    - *Plutella xylostella* 11867
    - pollination 6343
    - polyembryony 6251
    - temperature 10617
    - *Trichoplusia ni* 11867
    - waxes 7330
- ***Brassica oxyrrhina***
  - chloroplast genetics
    - chlorophyll 8476
    - chlorosis 8476
  - interspecific hybridization 8476
  - mitochondrial genetics, cytoplasmic male sterility 8476
  - protoplast fusion 8476
  - recombination
    - chlorophyll 8476
    - chlorosis 8476
- ***Brassica pekinensis***
  - anther culture 12973
  - breeding 6247
  - cytoplasmic inheritance, chlorophyll 4031
  - desiccation 12973
  - genetic resources 6247
  - genetics, male sterility 8305
  - interspecific hybridization 6251
  - male sterility 6251
  - mutations, chlorophyll 4031
  - polyembryony 6251
  - polymerase chain reaction, self incompatibility 10641
  - restriction fragment length polymorphism, self incompatibility 10641
  - turnip mosaic potyvirus 9520
  - variety trials 639
- ***Brassica tournefortii***
  - chromosome morphology 12036
  - chromosome pairing 12036
  - fertility 12036
  - interspecific hybridization 1942, 12036
  - meiosis 12036
- ***Brassica* (×) *Arabidopsis*,** protoplast fusion 5358, 7326
- ***Brassica* (×) *Barbarea*,** protoplast fusion 8472
- ***Brassica* (×) *Camelina*,** protoplast fusion 13127
- ***Brassica* × *Diplotaxis***
  - backcrossing, cytoplasmic male sterility 13131
  - intergeneric hybridization 13131
- ***Brassica* (×) *Eruca*,** protoplast fusion 7326
- ***Brassica* × *Moricandia*,** intergeneric hybridization 3198
- ***Brassica* × *Orychophragmus***
  - incompatibility 13128
  - intergeneric hybridization 13128
- ***Brassica* × *Raphanus***
  - chromosome addition
    - bolting 3993
    - roots 3993
  - *Heterodera schachtii* 840
  - intergeneric hybridization 828, 840, 3993, 12037
- ***Brassica* (×) *Raphanus***
  - chromosome number 5357
  - cytoplasmic male sterility 5357
  - protoplast fusion 5357
- ***Brassica* × *Sinapis***
  - fertilization 828
  - intergeneric hybridization 828, 3199, 7324, 13126
  - isoenzymes 13126
  - pollen germination 828
  - pollination 828
  - tissue culture 13126
- ***Brassica* (×) *Thlaspi***
  - nervonic acid 7325
  - protoplast fusion 7325-7326
- **Brassinosteroids**
  - *Glycine max*
    - gene expression 6126, 8154
    - nucleotide sequences 6126
  - *Lycopersicon esculentum,* gene expression 8154
- **Breeders' rights** 21-26, 1107-1108, 2296-2297, 2299-2300, 2344, 5719, 5721-5724, 6636, 6643, 7581, 8777-8778, 11158-11159, 12352, 12354-12368, 13418
  - *Brassica campestris,* turnip rape, history 4522
  - *Brassica napus,* rape, history 4522
  - crops 4545, 5718
  - *Cucumis sativus* 6289
  - edible fungi 4488
  - fruit crops 5720
  - genetic engineering 6644
  - genetic resources 11160
  - *Glycine max* 502
  - *Gossypium hirsutum* 13238
  - legislation 9958
  - *Pelargonium* 6561
  - temperate fruits 3104
- **Breeding** 9, 1090, 2274, 2293, 4524, 4543, 5713, 7578, 11138, 11140-11141, 11182, 12329, 12331, 13418
  - *Abelmoschus* 1876, 1889
  - *Abelmoschus esculentus* 1870, 1880, 1889, 5219
  - *Abelmoschus manihot* 1880
  - *Actinidia* 5300
    - reviews 5301
  - *Actinidia arguta* 7297
  - *Actinidia deliciosa* 10796
  - *Actinidia kolomikta* 7297
  - *Aegle marmelos* 4192
  - *Allium* 9500
    - books 13415
  - *Allium ascalonicum* 4025
  - *Allium cepa* 4025, 5140, 6247, 9497-9499
  - *Allium sativum* 3036, 4025
  - *Amaranthus* 5163
  - *Ananas comosus* 11268
  - *Apium graveolens* 4041
  - *Arachis hypogaea* 4247, 6104
    - history 12075
  - *Astragalus cicer* 4961
  - *Avena sativa* 2421, 6858
    - history 3686, 12632
    - reviews 4783-4784, 10195
  - *Avena sterilis,* history 12632
  - *Azadirachta indica,* conferences 8755
  - *Bambusa beecheyana* 11116
  - *Bambusa vario-striata* 11116
  - *Basella* 5164
  - *Beta vulgaris*
    - fodder beet, history 3034
    - spinach beets 5164
    - sugarbeet 2023, 3272, 6434, 10901, 12111-12112
      - books 4519
      - history 4277
      - reports 898
  - *Betula pendula* 3341
  - biographies 11943
  - books 13420
- **Breeding** *cont.*
  - *Brassica* 9659
  - *Brassica campestris*
    - reviews 5344
    - sarson 5347
    - toria, reviews 5346
    - turnip rape 6434
      - history 4522
    - turnips 5084
  - *Brassica carinata,* reviews 5344
  - *Brassica juncea* 5343, 5359
    - reviews 5344
  - *Brassica napus*
    - rape 1928-1929, 5343, 5348, 6434, 7319
      - history 4522
      - quality 9669
      - reviews 5344
  - *Brassica oleracea*
    - cabbages 6247
      - cauliflowers, Brussels sprouts, kale, kohlrabi 5147
  - *Brassica pekinensis* 6247
  - Cactaceae, history 7533
  - *Cajanus cajan,* reviews 8212
  - *Caltha palustris,* history 8668
  - *Cannabis sativa* 13251
  - *Capsicum* 4085
    - reviews 6284
  - *Capsicum annuum* 5196-5197, 10691, 11268
    - reports 1071
  - *Carica papaya* 4186, 11268
  - *Carya illinoinensis* 815
  - *Castanea crenata* 6293
  - cereals 2420, 4649, 11281, 12467
    - reports 153, 2247, 4513
  - *Chaenomeles japonica* 3128
  - *Chenopodium quinoa* 7014
  - *Citrus* 789, 4176, 7301, 7303
  - *Citrus limon* 7303
  - *Citrus paradisi* 7303
  - *Citrus reticulata* 7303
  - *Citrus sinensis* 7303, 9619
  - *Cocos nucifera* 3226, 3230, 6370, 6379, 11268
    - history 6368-6369
  - conferences 2261
  - crops 2, 11, 1225, 2415, 6635, 11139, 12332, 12584, 13421
    - books 9949, 11136
    - conferences 12309
    - history 3, 11267
    - physiology 2275
    - reports 1070, 5686, 6621
    - reviews 11172
    - salinity 2260
  - *Cucumis melo* 1856, 6247
    - reports 1071
  - *Cucumis sativus* 3097
    - history 11926
  - Cucurbitaceae 5204
  - *Cupressus* 7497
  - *Cynara scolymus,* reports 1071
  - *Dactylis glomerata* 454, 2790, 6057, 10052
  - *Daucus carota* 5084
    - reports 1071
  - *Dendranthema* 6559
  - *Dendranthema indicum* 3397
  - *Dendranthema morifolium* 3397
  - *Dendrocalamus brandisii* 11116
  - *Dendrocalamus hamiltonii* 11116
  - *Dendrocalamus latiflorus* 11116
  - *Dianthus* 6559
  - dictionaries 12313, 12327
  - *Dioscorea* 6228
    - books 12315
  - *Durio zibethinus* 11268
  - economics 8764
  - *Elaeis guineensis* 11268
    - history 12066
  - *Eragrostis curvula* 9270
  - *Eriobotrya japonica* 11954
  - *Eruca vesicaria* 5406
  - *Eucalyptus* 10992
    - books 7574
  - *Eucalyptus globulus,* economics 5524
  - *Euterpe edulis* 12992
  - *Euterpe oleracea* 12992
  - fatty oil plants 3186, 12027

- **Breeding** *cont.*
  - fatty oil plants *cont.*
    - books 5706
    - reviews 1927
  - *Festuca* 2797, 11632
  - *Festuca arundinacea* 2798, 11633, 11639
  - fodder legumes 6057, 7073
  - fodder plants 12778
    - reports 5686
  - forest trees 6530-6532, 13252, 13254
    - computer simulation 2110
    - conferences 8757
    - experimental design 7434
  - *Fragaria* 1906
  - *Fragaria ananassa* 5272
    - history 3103
    - reports 1071
  - *Fragaria vesca* 7282
  - fruit crops 4115
    - history 729
  - genotype environment interaction 2301
  - *Gerbera,* history 9862
  - *Gerbera jamesonii* 3397
  - *Glycine max* 503, 6103-6104, 6120, 7076, 10453
    - history 6134, 9321, 10450
    - reviews 10480
  - *Gossypium* 10956
    - history 12158
  - *Gossypium hirsutum* 7407, 10956, 12159
  - grain legumes
    - cold resistance 8136
    - drought resistance 8136
  - grasses 6057, 11621
    - economics 10394
  - *Grewia subinaequalis* 4192
  - *Hebe andersonii* 9841
  - *Hebe franciscana* 9840
  - *Helianthus annuus* 1962-1963
    - reviews 10855
  - *Hevea* 12176
  - *Hevea brasiliensis* 11268
  - *Hippophae rhamnoides* 7282
  - history 2
  - *Hordeum vulgare* 2421, 2576-2579, 2588, 4751, 5839, 11380, 12584
    - books 7577
    - computer simulation 2575
    - history 5903, 11373-11374
    - reviews 10154
    - statistics 7832
  - *Ilex* 6560
  - *Ipomoea batatas* 621, 3025, 6228, 11268
  - *Juglans regia* 4132, 9639
  - *Lablab purpureus* 5082
  - *Lathyrus sativus* 8124
  - legislation 27
  - *Lesquerella fendleri* 12100
  - *Lilium* 6559
  - *Lolium* 12778
  - *Lolium perenne* 4916
    - economics 10394
  - *Luffa* 725
  - *Lupinus,* conferences 2251, 5694
  - *Lycopersicon esculentum* 1833, 6247
    - reports 1071
    - reviews 5168
  - *Magnolia,* books 7573
  - *Malus pumila* 4118, 4122, 5221, 5226, 6293, 7248, 9568-9569, 13045-13046
    - history 3103
  - *Mangifera indica* 4183
  - *Manihot esculenta* 1804-1805, 5123-5129, 6228, 6245-6246
  - *Medicago sativa* 472, 6057
    - conferences 1074
    - history 11654
  - *Mentha* 6434
  - multivariate analysis 3461
  - *Musa* 4172, 8435, 9614, 10799
  - *Olea europaea* 10052
  - Orchidaceae 6559
  - ornamental plants, reports 1069, 5686, 6621
  - ornamental succulent plants, history 7533
  - ornamental woody plants 4115, 9855
  - *Oryza* 5839
  - *Oryza sativa* 1510-1512, 2724, 4878-4879, 4888, 6010, 6963, 9195, 10334, 11268, 11543, 11578
- **Breeding** *cont.*
  - *Oryza sativa cont.*
    - history 3794, 6012, 6050, 10335, 12705
    - reviews 10369
  - *Pennisetum glaucum* 1491-1492, 3784, 6957, 11280
  - *Pennisetum pedicellatum* 370
  - *Phaseolus* 1688
  - *Phaseolus vulgaris* 5016, 5018-5019, 6104, 11738
  - *Phyllanthus emblica* 4192
  - *Picea abies* 6546, 12218
  - *Pinus elliottii* 7478
    - reports 4511-4512
  - *Pinus maximinoi* 9809
  - *Pinus pinaster* 5577, 6546, 7437
  - *Pinus radiata* 12207
    - computer simulation 2110
  - *Pinus sylvestris* 3355, 6546, 12206
  - *Pinus taeda,* reports 4511
  - *Pisum sativum* 1688, 5040-5041
  - pome fruits 4121
  - population genetics 10
  - *Prunus* 4118, 4132
    - plums 3134
      - history 3103
  - *Prunus armeniaca* 7267, 10742, 11959
  - *Prunus avium* 5249-5250, 10747
    - history 3103
  - *Prunus cerasus* 13045
  - *Prunus domestica* 3135, 5246
  - *Prunus persica* 5255, 11977
  - *Prunus serotina* 7274
  - *Psidium guajava* 4190
  - *Punica granatum* 4191
  - *Pyrus communis* 3124, 4118
  - *Pyrus pyrifolia* 6293
  - quality 2416
  - *Quercus ilex* 10052
  - *Raphanus sativus* 5084, 6247
    - reports 1071
  - reviews 5
  - *Rhododendron* 6559
  - *Ribes* 7282, 13045
  - *Ribes nigrum,* history 3103
  - *Ribes uva-crispa,* history 3103
  - *Ricinus communis* 10888
  - *Rosa* 6559
  - *Rubus* 5264, 7282
  - *Rubus idaeus* 3141
    - history 4146
  - *Saccharum* 2000, 6434, 10897, 12101
  - *Saccharum officinarum* 876, 1999, 5407-5408, 6435
    - computer programming 875, 9695
    - databases 9695
  - *Saccharum spontaneum* 5408
  - *Secale cereale* 2421, 8977, 12467
  - *Sesamum indicum* 12095
  - *Sinocalamus stenoauritus* 11116
  - *Solanum melongena*
    - reports 1071
    - reviews 5192
  - *Solanum tuberosum* 599, 1774, 2943-2945, 6228, 8234, 9448, 10564, 11789-11790, 11813, 11820, 11824
    - conferences 13411
    - history 598
    - reports 600
    - reviews 10565
  - *Sorghum almum* 10305
  - *Sorghum bicolor* 353, 1472, 11280
    - history 2706
  - *Sorghum sudanense* 4857
  - statistics 1176, 3470, 8776
  - *Syzygium cumini* 4192
  - temperate fruits 13045
    - history 3103
    - reports 1069, 5686, 6621
  - *Theobroma cacao* 6471, 11268
  - *Thinopyrum distichum* 1637
  - *Trifolium pratense* 2838, 12778
  - *Trifolium repens* 11671
  - *Trigonella foenum-graecum* 5164, 5671
  - *Triplochiton scleroxylon* 5559
  - triticale 1387, 5940, 8985, 10210, 11279
  - Triticeae 7742
  - *Triticum* 2494, 5839
    - history 166
- **Breeding** *cont.*
  - *Triticum aestivum* 1256-1264, 2252, 2421, 2445, 2447, 2450, 2462, 3586, 4665, 5863, 7742, 11279, 11293, 11295, 11297, 12467, 12482
    - economics 3582, 8876, 12480
    - history 1300, 5851, 5870, 6753, 11354, 12480
    - reviews 10070
  - *Triticum durum* 1265
    - economics 12480
    - history 12480
    - reports 136
  - *Tulipa* 6559
  - *Vaccinium* 7282
  - vegetables 12462
    - history 11267
    - reports 1069, 2249, 5686, 6621
  - *Vicia faba,* reports 136
  - *Vicia sativa* 4955
  - *Vicia villosa* 4955
  - *Vigna angularis* 6104
  - *Vigna radiata* 5074, 6103
  - *Vigna unguiculata* 5069, 6104, 11268
  - *Vitis vinifera* 769-771, 773, 784, 3154-3157, 4155, 5282, 7291, 8424, 10777, 10781
    - history 10776
    - reports 1069, 6621
  - *Zea mays* 302, 304, 1391-1392, 1394-1395, 3705, 4808, 5952, 6057, 6876, 10217, 11268, 11279, 11414-11416, 11474
    - history 303
    - reports 301
    - reviews 10218
    - statistics 9000
  - *Ziziphus mauritiana* 4192
- ***Bremia lactucae***
  - *Gerbera jamesonii* 13365
  - *Lactuca,* genetics 7204
  - *Lactuca saligna* 7204
  - *Lactuca sativa*
    - genetics 3051, 8312, 10650
    - genotype environment interaction 7203
    - linkage 7203, 8312
    - random amplified polymorphic DNA 3051
- ***Brevipalpus phoenicis, Camellia sinensis*** 4281
- **Brittleness**
  - *Aegilops × Triticum*
    - chromosome addition 6763
    - chromosome substitution 6763
  - *Hordeum agriocrithon,* artificial selection 3672
  - *Hordeum spontaneum,* artificial selection 3672
  - *Hordeum vulgare,* artificial selection 3672
  - *Pinus patula,* heritability 7483
- **Broad bean stain comovirus,** *Pisum sativum* 2916
- **Bromoxynil,** *Nicotiana tabacum,* genetic transformation 7405
- ***Bromus***
  - chromosome morphology 3895
  - cytotaxonomy 3895
  - DNA 3896
  - interspecific hybridization 1642
  - sexual reproduction 1642
- ***Bromus auleticus***
  - genetic resources
    - quality 7038
    - seasonal growth 7038
- ***Bromus hordeaceus***
  - nitrogen 7019
  - nutrients 7019
  - stress 7019
- ***Bromus inermis***
  - aneuploidy 466
  - gene expression
    - cold resistance 12808
    - dehydrin 12808
  - molecular genetics, evolution 6735
  - polyploidy 466
  - somaclonal variation 2812
  - sterility 466
  - tissue culture 2812
  - wide hybridization 466

Bromus secalinus
  gene expression, dormancy 12805
  gene location
    abscisic acid 12520
    dormancy 12520
    growth regulators 12520
  molecular genetics
    abscisic acid 12520
    dormancy 12520
    growth regulators 12520
Bromus tectorum
  genetic variation 8089
    isoenzymes 1643
  plant introduction 8089
Bryonia cretica
  gene expression
    calmodulin 4469
    mechanical damage 4469
    peroxidases 4471
  nucleotide sequences, calmodulin 4469
Buchloe dactyloides
  random amplified polymorphic DNA, genetic distance 2809
  varieties, Bison 9264
Buddleja
  genetics
    colour 992
    flowers 992
    habit 992
Buddleja davidii, interspecific hybridization 992
Buddleja fallowiana, interspecific hybridization 992
Buds
  Juglans regia 9643
  Pseudotsuga menziesii, heritability 5606
  Syzygium aromaticum 6608
Bulbophyllum, taxonomy 4458, 9901
Bulbophyllum drepanosepalum, taxonomy 4459
Bulbophyllum entomonopsis, taxonomy 4459
Bulbophyllum monanthum, nomenclature 11094
Bulbophyllum uniflorum, nomenclature 11094
Bulbs
  Allium sativum
    artificial selection 3036
    genetic distance 9511
    multivariate analysis 9511
Bursera, taxonomy 7465
Bursera inversa, taxonomy 7465
Busseola fusca
  Zea mays 350, 2702
    genetics 3769
Cacopsylla pyri
  Pyrus 11953
  Pyrus communis 5238, 10739-10740
Cacopsylla pyricola, *Pyrus communis* 10740
Cactaceae
  breeding, history 7533
  flowers 7532
  plant introduction 7532
Cactus opuntia, nomenclature 1035
Cadmium
  Avena sativa 11402
  Haplopappus gracilis 1010
  Lactuca sativa 4046
  Nicotiana tabacum 13233
    genetic transformation 7391
    genetics 6494
  Papaver somniferum 1052
  Silene vulgaris 6578
  Zea mays 6899, 9145-9146
Caesium, *Hordeum vulgare* 8965
Caffeic acid *O*-methyltransferase
  Eucalyptus gunnii, nucleotide sequences 12184
  Medicago sativa, genetic engineering 8559
  Nicotiana tabacum
    gene expression 8559
    genetic transformation 8559
Caffeine
  Coffea 903
  Hordeum vulgare 10167
Cajanus
  Callosobruchus maculatus 11776
  embryo culture 6211
***Cajanus** cont.*
  genotype environment interaction, trypsin inhibitors 12914
Cajanus cajan
  Acanthoscelides obtectus 5068
  anther culture 5067
  artificial selection, yield components 576
  breeding, reviews 8212
  combining ability, yield components 1760-1761, 9423
  crop density 6214
  crop mixtures 578
    Pennisetum glaucum 3977, 6213
    Sorghum bicolor 3977, 6213, 7139
  DNA 498, 12913
  embryo culture 7135
  Fusarium udum 2935, 10544-10547
  genetic resources 6722, 8211
  genetic variance, yield components 1760-1761
  genotype environment interaction 6214
    trypsin inhibitors 12914
    yield components 11775
  germination 6212
  Glycine max, crop mixtures 500
  growth period 1759
  Helicoverpa armigera 579, 9426, 10548
  heritability, yield components 2934, 9425
  heterosis
    tissue culture 1759
    yield components 1759, 9424
    yields 3977
  hybrid seed production 1231, 1689
  hybrid varieties 1689
  in vitro culture 8214
  insects 7137
  interspecific hybridization 6211, 7135
  lipoxygenase 6212
  male sterility 11773
  Maruca vitrata 10548
  Melanagromyza obtusa 580
  mutations
    flowers 9422
    outcrossing 9421
  mycoplasma-like organisms 8215
  nutrients 11774
  pigeon pea sterility mosaic virus 3978
  seed aging 6212
  sowing 10544
  sowing date 579
  tissue culture 6419, 12915
  variety trials 1757
  yield components 7136-7138
  yield correlations 576, 6213-6214, 9425
  Zea mays, crop mixtures 342
  varieties
    Bageswari 2933
    Rampur Rhar 2933
Cajanus cajanifolius, interspecific hybridization 6211
Cajanus platycarpa, interspecific hybridization 6211
Cajanus × Atylosia, intergeneric hybridization 577, 1758, 7135, 8213
Cajanus × Flemingia, intergeneric hybridization 1758
Cajanus × Rhynchosia
  embryo culture 6211
  intergeneric hybridization 1758, 6211
Caladium hortulanum
  somaclonal variation
    colour 7536
    variegation 7536
Calamagrostis, chromosome morphology 2810
Calamagrostis canescens, interspecific hybridization 7037
Calamagrostis stricta, interspecific hybridization 7037
Calanthe, genetic transformation 4454
Calanthe keshabii, taxonomy 11091
Calcium
  Arachis hypogaea 865, 13163
  Festuca pratensis 11642
  Rhododendron, artificial selection 9854
  Solanum, tuberous species 1785
  Sorghum bicolor 4866-4867
  Trifolium subterraneum 11676
  Triticum aestivum 2515
Calcium binding proteins
  Arabidopsis thaliana
    gene mapping 8811
    molecular genetics 59
    nucleotide sequences 8811
  Hordeum vulgare
    gene expression 10164
    gene location 10164
    nucleotide sequences 10164
Calliandra, taxonomy 2167
Callosobruchus, *Vigna unguiculata* 11781
Callosobruchus chinensis
  Cicer arietinum 1756
  Phaseolus vulgaris 543
  Vigna 3990
  Vigna radiata, genetics 593
Callosobruchus maculatus
  Atylosia sericeus 11776
  Cajanus 11776
  Vigna 3990, 9436
  Vigna mungo 9444
  Vigna unguiculata 5072, 7145-7146, 9436, 9438, 11780
    artificial selection 587
    molecular genetics 588
Calmodulin
  Arabidopsis thaliana, nucleotide sequences 5772
  Bryonia cretica
    gene expression 4469
    nucleotide sequences 4469
  Vigna radiata
    gene expression 8225
    nucleotide sequences 8225
  Zea mays, nucleotide sequences 10234
Calmodulin binding proteins
  Zea mays
    gene expression 4812
    nucleotide sequences 4812
Calnexin
  Arabidopsis thaliana
    molecular genetics 3527
    nucleotide sequences 3527
Calocoris angustatus, *Sorghum bicolor* 10313
Calonectria (*see also Monographella; Nectria)*
Calreticulin
  Hordeum vulgare
    gene expression 10164
    gene location 10164
    nucleotide sequences 10164
Caltha palustris, breeding, history 8668
Calyptranthes bracteata, taxonomy 13288
Camelina* (×) *Brassica, protoplast fusion 13127
Camellia
  chemotaxonomy 11044
  chromosome aberrations 11038
  chromosome pairing 11038
  evolution, anthocyanins 11044
  flowers 11040
  gynoecium 11040
  interspecific hybridization 2158
  meiosis 11038
  peroxidases 2158
  pollen 4392
  taxonomy 2166, 4400, 11047
  variety classification 11040
Camellia chrysantha
  interspecific hybridization 11037
  pollination 11037
Camellia hiemalis
  rootstocks 6562
  varieties, Kanjiro 6562
Camellia japonica
  interspecific hybridization 11037
  pollination 11037
  tissue culture 993
Camellia nitidissima
  morphology 3377
  taxonomy 3377
Camellia petelotii
  morphology 3377
  taxonomy 3377
Camellia sinensis
  Brevipalpus phoenicis 4281
  Cephaleuros virescens 8532
  clonal variation, photosynthesis 13194
  cold resistance 13197
  cryopreservation 3274, 6464

Camellia sinensis *cont.*
- drought resistance 6465-6466, 12118
- germplasm releases 9711, 12117
- *in vitro* culture 13196
- leaves 5438, 13197
- nitrogen 12118
- nutrients 12118
- *Oligonychus coffeae* 5439
- phenolic compounds 2045
- pollen 7383
- polyploidy 5438, 13195
- seed testing 901
- storage, pollen 3274
- tissue culture 2044, 9712
- yield correlations 13195

Camellia williamsii, tissue culture 4395

Campanula americana
- maternal effects 3393
- paternal effects 3393
- seeds 3393

Campanula rapunculoides
- self compatibility 2182
- senescence 2182

Camphor, *Ocimum americanum,* heterosis 2235

Camptotheca acuminata, gene expression, hydroxymethylglutaryl-CoA reductase 3425

Canarium album, pollination 6329

Canavalia rosea, sexual reproduction 9446

Cannabinoids, *Cannabis sativa* 13251

Cannabis, *Meloidogyne hapla* 6528

Cannabis sativa
- breeding 13251
- cannabinoids 13251
- genetics, sex 3337
- tetrahydrocannabinol 13251

Canopy
- *Arachis hypogaea* 4255, 13159
  - combining ability 1982
- *Hordeum vulgare* 1367
- *Solanum tuberosum* 7159
- *Sorghum bicolor* 9175
- *Triticum aestivum* 8892

Capsanthin-capsorubin synthase
- *Capsicum annuum*
  - gene expression 10692
  - nucleotide sequences 10692

Capsicum
- artificial selection
  - *Verticillium albo-atrum* 707
  - *Verticillium dahliae* 4101
- breeding 4085
  - reviews 6284
- fruits 13025
- gene banks 4049, 4083
- genetics, *Verticillium dahliae* 4101
- germplasm releases, ornamental value 8358
- *Glomerella cingulata* 4099
- gynoecium 4089
- hybrid seed production 1849, 4090
- interspecific hybridization 701, 707
- *Leveillula taurica* 4100
- outcrossing 5198
- pepper mottle potyvirus 8363
- *Phytophthora capsici* 3085, 8360-8361, 10696
- pollen germination 13024
- pollination 4090
- polymorphism, isoenzymes 702
- quality 4094, 8357
- taxonomy 1853
- tissue culture 662
- tobacco etch potyvirus 8363
- variety classification 8774
- *Xanthomonas campestris* 3084

Capsicum annuum
- amino acids 9559
- anther culture 4092
- breeding 5196-5197, 10691, 11268
  - reports 1071
- carotenoids 9558
- cold resistance 13026
- *Colletotrichum capsici* 1855
- combining ability, yield components 1851, 5195
- cucumber mosaic cucumovirus 3086-3087, 8362
- dimethyl sulfonate 11899
- DNA 700

Capsicum annuum *cont.*
- drought resistance 1854
- epistasis, *Phytophthora capsici* 8359
- ethyl methanesulfonate 7236, 11899
- fruits 9557
- gamma radiation 7236
- gene expression, capsanthin-capsorubin synthase 10692
- genetic markers 698
  - isoenzymes 701
- genetic resources 4084, 10691
- genetic variance, growth period 4079
- genetics
  - bentazone 4102
  - β-carotene 4095
  - colour 4095
  - fruits 4095
  - height 5199
  - herbicides 4102
  - *Phytophthora capsici* 709-710
  - potato Y potyvirus 5201
  - tomato spotted wilt tospovirus 11900
- germination 700
- haploidy 698
- heritability, yield components 7237
- *in vitro* selection, drought resistance 13027
- incompatibility 699
- induced mutations
  - β-carotene 1848, 4095
  - colour 1848, 4095
  - fruits 1848, 4095
  - germination 11899
  - sterility 11899
  - yield components 11899
- interspecific hybridization 699, 709, 5199, 11900
- *Leveillula taurica* 10695
- modifiers
  - bentazone 4102
  - herbicides 4102
- moisture content 9557, 10694
- mutagens 7236, 11899
- nucleocytoplasmic interaction, height 5199
- nucleolus 8850
- nucleotide sequences, capsanthin-capsorubin synthase 10692
- pepper mild mottle tobamovirus 9559
- pepper mottle potyvirus 8362
- *Phytophthora capsici* 706, 4096
- pollination 11898
- polymorphism
  - isocitrate dehydrogenase 703
  - isoenzymes 703
- potato Y potyvirus 5202
- protoplasts 8362
- *Pseudomonas solanacearum* 705, 4098, 5200
- quality 1852, 10694
- random amplified polymorphic DNA 5199
- restriction fragment length polymorphism 7235
- RNA 8850
- seed production 8356
- self pollination 8356
- temperature 708
- tissue culture 704, 3083, 4093
- tobacco etch potyvirus 8362
- tobacco mosaic tobamovirus 4096
- *Verticillium dahliae* 706, 708
- viruses 10695
- water balance 1854
- X radiation 1848, 4095
- *Xanthomonas campestris* 4096
- yield components 1850
- yield correlations 4091, 6285, 10693
- varieties
  - NuMex Joe E. Parker 4086
  - NuMex Sweet 8355
  - Oranzheva Kapiya 1848
  - Qie Men 10691
  - Xiong Ao 804 Niu Jiao Jiao 9521

Capsicum baccatum
- genetic markers, isoenzymes 701
- incompatibility 699
- interspecific hybridization 699
- *Phytophthora capsici* 706
- restriction fragment length polymorphism 7235

Capsicum baccatum *cont.*
- *Verticillium dahliae* 706

Capsicum chacoense
- genetic markers, isoenzymes 701
- genetics, *Meloidogyne* 711
- incompatibility 4088
- interspecific hybridization 711, 4088
- *Phytophthora capsici* 706
- *Verticillium dahliae* 706

Capsicum chinense
- cucumber mosaic cucumovirus 8362
- genetics
  - height 5199
  - *Meloidogyne* 711
  - tomato spotted wilt tospovirus 11900
- interspecific hybridization 711, 5199, 11900
- nucleocytoplasmic interaction, height 5199
- pepper mottle potyvirus 8362
- *Phytophthora capsici* 706, 4097
- protoplasts 8362
- random amplified polymorphic DNA 5199
- tobacco etch potyvirus 8362
- tomato spotted wilt tospovirus 4097
- *Verticillium dahliae* 706

Capsicum frutescens
- genetic resources 4084
- genetics
  - *Meloidogyne* 711
  - *Phytophthora capsici* 709
- interspecific hybridization 709, 711
- *Phytophthora capsici* 706
- pollen germination 8321
- *Pseudomonas solanacearum* 4098
- *Verticillium dahliae* 706

Capsicum pubescens
- incompatibility 4088
- interspecific hybridization 4088

Capsicum tovarii
- incompatibility 4088
- interspecific hybridization 4088

Caralluma, taxonomy 9907

Carapa guianensis
- gene flow 13281
- genetic variation 13281

Carbohydrates
- *Actinidia deliciosa,* tissue culture 8433
- *Cucumis sativus,* gene expression 10709
- *Lens culinaris* 564
- *Lolium multiflorum* 7026
- *Lolium perenne* 9252
- *Manihot esculenta* 10619
- *Medicago sativa* 11667
- *Nicotiana tabacum* 2071
- *Panicum amarum* 5999
- *Panicum virgatum* 5999
- *Pennisetum glaucum* 374
- *Solanum tuberosum*
  - gene expression 6236
  - genetic engineering 6236
  - genetic transformation 3994
- *Vitis vinifera* 10793
- *Zea mays* 12678

Carbon
- *Agropyron desertorum,* artificial selection 8075
- *Arachis hypogaea* 6425
  - genotype environment interaction 6418
- *Festuca arundinacea* 1631
- *Medicago sativa* 9285

Carbon dioxide, *Nicotiana tabacum,* artificial selection 3287, 6488

Carbonate dehydratase
- *Arabidopsis thaliana*
  - gene expression 12401
  - nucleotide sequences 11203, 12401
- *Nicotiana tabacum*
  - gene expression 12123, 13229
  - genetic engineering 12123
  - genetic transformation 13229
- *Pisum sativum*
  - gene expression 10521
  - molecular genetics 545

Carboxin
- *Coprinus bilanatus* 8748
- *Coprinus cinereus* 8748

- **Carboxylases**
  - *Triticum durum*
    - combining ability 8896
    - genetic variance 8896
    - heterosis 8896
- ***Carica papaya***
  - breeding 4186, 11268
  - fruits 10814
  - heterosis, yields 13106
  - *in vitro* culture 786, 810, 13106
  - nucleotide sequences, proteinases 3178
  - quality 10814
  - rooting capacity 10815
  - storage, pollen 4169
  - tissue culture 5325, 6327, 8449, 10815-10816
  - yield components 10814
  - yield correlations 3179
- **β-Carotene**
  - *Capsicum annuum*
    - genetics 4095
    - induced mutations 1848, 4095
  - *Ipomoea batatas* 11851
- **Carotenes**
  - *Daucus carota,* somaclonal variation 7174
  - *Lycopersicon esculentum,* genetics 13007
- **Carotenoids**
  - *Arabidopsis thaliana*
    - mutations 11216
    - nucleocytoplasmic interaction 11216
  - *Capsicum annuum* 9558
  - *Ipomoea batatas* 9488
    - *in vitro* selection 5134
  - *Manihot esculenta* 7179
  - *Oryza sativa* 9220
  - *Solanum phureja,* genetics 5097
  - *Solanum stenotomum,* genetics 5097
  - *Solanum tuberosum* 4004
    - genetics 5097
  - *Triticum aestivum* 4700
    - heterosis 4701
  - *Vitis vinifera* 10788
  - *Zea mays* 6897, 11447
    - gene expression 9115
    - gene location 9042
    - genetics 9115, 10278
    - mutations 10278
- ***Carpophilus,*** *Zea mays* 10301
- ***Carthamus***
  - multivariate analysis 851
  - taxonomy 851
- ***Carthamus tinctorius***
  - artificial selection, oils 1971
  - combining ability
    - oils 12064
    - yield components 10868, 12064
  - fungi 8501
  - genetic variance
    - oils 12064
    - yield components 10867, 12064
  - genetics, fatty acids 3221
  - genotype environment interaction 12065
  - heritability, yield components 4238, 10870
  - heterosis, yield components 6364, 10869
  - male sterility 6364
  - stability 12065
  - tissue culture 5392
  - yield components 12063
  - yield correlations 4238, 10870-10871
  - varieties, AC Stirling 850
- ***Carum***
  - chromosome number 2217
  - DNA 2217
- ***Carum carvi***
  - annual habit 9933
  - carvone 12300
  - essential oils 7552, 9933
  - variety trials 5672
  - yield components 7552
- **Carvone**
  - *Anethum graveolens* 12300
  - *Carum carvi* 12300
- ***Carya aquatica,*** pollen germination 1924
- ***Carya cordiformis,*** pollen germination 1924
- ***Carya illinoinensis***
  - breeding 815
  - *Cladosporium caryigenum* 5338, 10832
  - embryo culture 13118
  - fatty acids 9650
- ***Carya illinoinensis*** *cont.*
  - genetic transformation 816
  - growth period 817
  - heritability, yield components 10831
  - irregular bearing 13117
  - plant composition 13117
  - plant introduction 8459-8460
  - pollen 9650
  - pollen germination 1924
    - temperature 9649
  - storage, pollen 137
  - variety trials 8459-8460, 12025
  - yield correlations 10831
- ***Carya tomentosa***
  - *Cladosporium caryigenum* 10832
  - pollen germination 1924
- ***Caryedon serratus,*** *Arachis hypogaea* 869
- **Caryopsis** (*see* Seeds)
- ***Cassia angustifolia***
  - heritability, yield components 1041
  - yield correlations 2223, 4476
- ***Castanea,*** genetic variation, isoenzymes 13119
- ***Castanea crenata***
  - breeding 6293
  - genetic resources 6293
  - *Phytophthora cambivora* 9652
  - *Phytophthora cinnamomi* 9652
- ***Castanea mollissima***
  - varieties
    - Dabanli 7314
    - Qiyuehong 7314
    - Yuluohong 7314
- ***Castanea sativa***
  - chloroplast genetics, evolution 3184
  - genetic variation, isoenzymes 5339-5340
  - nucleotide sequences, ribulose-bisphosphate carboxylase 3184
  - *Phytophthora cambivora* 9652
  - *Phytophthora cinnamomi* 9652
  - tissue culture 9651
  - wood properties 5340
  - varieties, Marron du Var CA262 10833
- ***Catabrosa aquatica***
  - chloroplast genetics, taxonomy 10411
  - restriction fragment length polymorphism, taxonomy 10411
- **Catalase**
  - *Arabidopsis thaliana,* gene expression 7641
  - evolution 8857
  - gene expression 11187
  - genetic transformation 11187
  - *Lycopersicon esculentum,* mutations 9545
  - *Nicotiana tabacum*
    - gene expression 4306
    - molecular genetics 3512
    - nucleotide sequences 4306
  - *Oryza sativa*
    - gene location 3810
    - molecular genetics 3810
  - *Ricinus communis*
    - gene expression 12092
    - molecular genetics 7370
    - nucleotide sequences 12092
  - *Triticum aestivum,* genetic variance 4701
  - *Zea mays*
    - gene expression 3764, 4831, 4833, 5984, 9029
    - molecular genetics 9029
- **Catalogues**
  - *Cucumis sativus,* genetics 11928
  - genetic resources 3468, 11155
  - taxonomy 2408
  - *Theobroma cacao*
    - gene banks 6472
    - genetic resources 6472
  - *Zea mays,* genetic resources 5947
- **Catechol *O*-methyltransferase**
  - *Nicotiana tabacum*
    - gene expression 2057
    - molecular genetics 2057
- **Catechol oxidase**
  - *Iris* 1022
  - *Solanum berthaultii* 1799
  - *Solanum tuberosum* 1799
  - *Triticum aestivum* 12541
  - *Triticum durum* 12541
- ***Catharanthus roseus***
  - anther culture 9919
  - colour 11100
- ***Catharanthus roseus*** *cont.*
  - gene expression
    - aromatic-L-amino-acid decarboxylase 8732
    - cell division 9911
    - cytochrome P-450 8733
    - heat shock proteins 2219
    - tryptophan decarboxylase 4470
  - genetic engineering
    - aromatic-L-amino-acid decarboxylase 8732
    - cytochrome P-450 8733
    - tryptophan decarboxylase 4470
  - molecular genetics, cytochrome P-450 5661
  - nucleotide sequences 9912
    - adenosylhomocysteinase 9913
    - cell division 9911
    - cytochrome P-450 8733
    - heat shock proteins 2219
    - tryptophan decarboxylase 4470
  - protoplasts 13384
  - variety trials 11100
- **Cathepsin D inhibitor protein,** *Lycopersicon esculentum,* nucleotide sequences 8326
- ***Catostemma durifolius,*** taxonomy 8625
- **Cauliflower mosaic caulimovirus**
  - *Brassica campestris,* turnips, molecular genetics 5122
  - gene expression, reviews 1124
  - genetic transformation, reviews 1124
  - *Nicotiana bigelovii*
    - genetic transformation 4309
    - recombination 4309
  - *Nicotiana tabacum*
    - gene expression 918, 10925
    - genetic transformation 10925
- ***Cayratia japonica,*** ovule culture 6604
- ***Cecropia,*** genetic variation 4347
- **Cecropin**
  - *Nicotiana tabacum,* genetic transformation 6498
  - *Solanum tuberosum*
    - gene expression 4005
    - genetic transformation 4005-4006
- ***Ceiba pentandra,*** wood properties 8621
- **Cell culture** 5808, 5811
  - *Alhagi kirghisorum* 5669
  - *Allium cepa* 11861
  - *Allium fistulosum* 11861
  - *Angelica dahurica* 12289
  - *Arachis hypogaea* 10883
    - drought resistance 3241
  - *Avena sativa* 4789
  - *Brassica napus* 1957
    - rape 5369
  - *Brassica oleracea,* broccoli 9518
  - *Cenchrus ciliaris* 8090
  - *Citrus* 13093
  - *Cucumis sativus,* gene expression 10709
  - *Dactylis glomerata* 4914
  - *Datura fastuosa* 8734
  - *Daucus carota* 1801-1802, 8285, 10612, 11847
  - *Dioscorea deltoidea* 5668
  - *Elymus* × *Triticum* 3536
  - *Eucalyptus camaldulensis* 13263
  - *Eucalyptus grandis* 13263
  - *Fragaria ananassa* 4151
  - *Glycyrrhiza glabra* 1043
  - *Gossypium* 8576
  - *Hevea brasiliensis* 6529
  - *Hordeum murinum* 12597
  - *Hordeum vulgare* 10176
  - *Humulus lupulus* 11115
  - *Ipomoea batatas* 5134
  - *Larix,* mitochondrial genetics 13320
  - *Liquidambar styraciflua* 12197
  - *Lycopersicon esculentum* 676
  - *Lycopersicon pennellii* 676
  - *Medicago sativa* 11664
  - *Medicago varia* 12814
  - *Musa* 8440
  - *Nephrolepis exaltata* 6597
  - *Nicotiana tabacum* 2076
  - *Oryza rufipogon* 426
  - *Oryza sativa* 3805, 3816, 6041, 9224, 10375, 12743
  - *Picea abies* 7487, 11028
  - *Pinus caribaea* 13303

Cell culture *cont.*
- *Pistacia vera* 1926
- reviews 2393
- *Ruta graveolens* 2225
- *Saccharum* 6444, 12108
- *Saccharum officinarum* 10898
- *Solanum stoloniferum* 1789
- *Solanum tuberosum* 1788, 5100
- *Solanum vernei* 1789
- *Stevia rebaudiana* 5437
- *Triticum aestivum* 3627
- *Triticum durum* 3627
- *Triticum timopheevii* 4708
- *Ulmus campestris* 4353
- *Ulmus pumila* 4353
- *Vitis vinifera* 10791
- *Zea mays* 6896, 9121
- *Zinnia elegans* 4416
  - gene expression 4417
  - molecular genetics 4417

Cell division 104, 5800, 12439
- *Allium cepa* 107, 4632, 7191, 8300
- *Antirrhinum majus,* gene expression 8696
- *Arabidopsis thaliana*
  - gene expression 3513, 9911, 10017
  - genetic transformation 9911
  - molecular genetics 10017
- *Catharanthus roseus*
  - gene expression 9911
  - nucleotide sequences 9911
- *Cypripedium fasciculatum* 13377
- gene expression, reviews 110
- *Glycine max* 9338
- *Hordeum vulgare* 11397
- *Lycopersicon esculentum* 1834
- *Medicago sativa,* gene expression 7050
- *Nicotiana sylvestris,* mutations 929
- *Nicotiana tabacum* 6483
  - genetic transformation 2053
- *Oryza sativa* 3816
- *Pisum sativum*
  - abscisic acid 8191
  - growth regulators 8191
- *Solanum tuberosum* 2963
- *Vicia faba* 12870
- *Zea mays* 9058
  - chromosome transmission 3734
  - genetics 3734
  - induced mutations 9067
  - mutations 110

Cells, *Beta vulgaris,* sugarbeet, genetic variance 897

Cellulase
- *Glycine max*
  - gene expression 8155
  - nucleotide sequences 8155
- *Sambucus nigra*
  - gene expression 9613
  - nucleotide sequences 9613

Cellulose
- *Pleurotus ostreatus*
  - genetics 4501
  - induced mutations 4501

Celmearia ruawahia
- taxonomy 4404
- varieties, Nebulous 4404

Celmisia* × *Olearia
- intergeneric hybridization 4404
- taxonomy 4404

Cenchrus ciliaris
- cell culture 8090
- genetic resources 3892
- sodium 12802

Centres of diversity 12345
- *Aegilops squarrosa* 2573
- *Allium* 4026
- *Gossypium hirsutum* 949
- *Hibiscus* 8582
- *Malus* 8386
- *Phaseolus vulgaris* 9384
- *Theobroma cacao* 8538
- *Vigna unguiculata* 3980
- *Zea mays* 12651

Centres of origin
- *Citrus* 6322
- *Cocos nucifera* 856
- *Oryza sativa* 2753, 3842, 11600
- *Phaseolus vulgaris* 8176
- *Pyrus communis* 5237
- *Vigna unguiculata* 3980

Centromeres, *Cycas revoluta* 4384

Centrosema
- chromosome number 4964
- taxonomy 4968

Centrosema teresae, taxonomy 11692

Cephalanthera
- genetic variation, isoenzymes 1025
- inbreeding 1025
- sexual reproduction 1025
- taxonomy 1027

Cephaleuros virescens, *Camellia sinensis* 8532

Cephalosporium (*see also Phialophora)*
- *Zea mays* 1466

Cephus cinctus, *Triticum aestivum,* germplasm releases 11371

Cephus pygmeus, *Triticum aestivum* 11367

Cerasus (*see Prunus)*

Ceratobium* × *Eleutheroglossum, intergeneric hybridization 13376

Ceratobium* × *Phalaenanthe, intergeneric hybridization 13376

Ceratocystis fimbriata, *Ipomoea batatas,* heritability 3027

Ceratocystis paradoxa, *Cocos nucifera* 6406

Ceratocystis ulmi
- *Ulmus americana, in vitro* selection 11001
- *Ulmus campestris* 4353
- *Ulmus pumila* 4353

Ceratonia siliqua
- flowering 9634
- sex 9634
- tissue culture 7312

Cercospora (*see also Mycosphaerella; Pseudocercospora)*

Cercospora beticola
- *Beta vulgaris*
  - beetroots 13191
  - fodder beet 13191
  - sugarbeet 2041, 6462, 10915, 13182, 13191
    - gene expression 9710

Cercospora canescens, *Vigna radiata* 5079, 7156, 8229

Cercospora nicotianae
- *Nicotiana sylvestris*
  - gene expression 5465
  - genetic transformation 5465

Cercospora sojina
- *Glycine max* 7077
  - combining ability 7094
  - genetics 6141
  - multivariate analysis 7093

Cercospora sorghi
- *Sorghum bicolor* 6946
  - combining ability 1486
  - heterosis 1486

Cercospora zeae-maydis
- *Zea mays* 2690
  - genetics 9158

Cereals
- aluminium 10064
- breeding 2420, 4649, 11281, 12467
  - reports 153, 2247, 4513
- chloroplast genetics, evolution 157
- cold resistance 7022, 11289
- competitive ability 1251
- cytology 6729
- development 5844
- digestibility 11287
- diseases 2436, 6737
- *Diuraphis noxia* 2443
- experimental design 1251
- forage 3570, 4651
- fungi 11292
- gene banks 4539, 6168
  - reports 152
- gene expression 7694
- gene location, enzyme inhibitors 11284
- gene mapping 3574, 5840
- genetic markers 2426
- genetic resources 2419, 3569, 12467
  - reports 134, 4513
- genetic transformation 7694
- genetics, enzyme inhibitors 11284
- genomes 11284
- genotype mixtures 1251
- herbicides 4664
- *Heterodera* 4663
- *in vitro* culture 5847

Cereals *cont.*
- *in vitro* selection
  - fungi 1248
  - stress 1248
- low input agriculture 11292
- molecular genetics 2426, 3574-3575
  - cold resistance 7713
  - evolution 5840
- *Monographella nivalis* 7022
- plant composition, reports 163
- plant introduction 3569
- polymerase chain reaction, variety classification 12472
- polymorphism, enzyme inhibitors 11284
- proteins 8871
- quality 10063, 12475
  - reports 163
- restriction fragment length polymorphism 11282
- seed testing 12475
- soil pH 10064
- soil toxicity 10064
- storage, seeds 4539
- temperature 6729
- *Typhula ishikariensis* 7022
- variety trials 3570, 4651-4652, 5688, 6725-6726
  - reports 153
- wide hybridization 1246
- varieties 4645, 4652

Cereus
- seeds 8729
- taxonomy 8729

Cereus peruvianus
- isoenzymes 2216
- malate dehydrogenase 2216
- tissue culture 2216

Cerulenin, *Zea mays, in vitro* selection 9078

Cestrum parqui
- chromosome banding 3429
- cold 3429
- heterochromatin 3429

Chaenomeles japonica, breeding 3128

Chaenomeles speciosa
- genetic resources 6298
- varieties, Yipinxiang 6298

Chalcodermus bimaculatus, *Vigna unguiculata* 5071

Chalcone isomerase
- *Medicago sativa*
  - gene expression 3913, 8103
  - nucleotide sequences 8103
- *Pisum sativum,* nucleotide sequences 10516
- *Zea mays,* nucleotide sequences 3716

Chalcone *O*-methyltransferase
- *Medicago sativa*
  - gene expression 3913
  - nucleotide sequences 3913

Chalcone synthase (*see* Naringenin-chalcone synthase)

Chamaecrista aldabrensis, taxonomy 7068

Chamaecrista fasciculata
- heritability
  - development 2189
  - size 2189
- maternal effects
  - development 2189
  - size 2189

Chamaecyparis formosensis, tissue culture 9832

Chamaecyparis nootkatensis, cold resistance 8658

Chamaecyparis obtusa
- clonal variation, isoenzymes 991
- genetic variation, isoenzymes 991, 13326

Chamaecytisus proliferus, random amplified polymorphic DNA 8125

Chamaedorea, taxonomy 5568

Chamaelirium luteum, paternal effects, statistics 9870

Chamomilla recutita
- development 13386
- essential oils 13386
- gamma radiation 1042
- induced mutations
  - flowers 1042
  - yield components 1042
- polyploidy 13386

- **Chaperonins**
  - *Arabidopsis thaliana*
    - gene expression 4591
    - genetic engineering 4591
  - *Brassica napus*
    - rape
      - gene expression 824-825
      - genetic engineering 825
      - nucleotide sequences 12030-12031
  - *Cucurbita*
    - gene expression 1860
    - molecular genetics 1860
  - *Nicotiana tabacum*
    - gene expression 13207
    - genetic transformation 4591, 13207
- ***Cheilosa montana,*** taxonomy 8624
- **Chemical pruning,** *Prunus persica* 4142
- **Chemicals** (*see* under individual chemical names; Fungicides; Gametocides; Growth regulators; Herbicides; Mutagens; Nutrients; Pesticides; Plant composition; Toxic substances)
- **Chemotaxonomy** 6719
  - *Abies alba,* monoterpenes 8645
  - *Acacia* 9795
  - *Achillea millefolium* 4479
  - *Angelica archangelica* 12301
  - *Angelica sylvestris* 12301
  - angiosperms 7684
  - *Arnica acaulis* 12293
  - *Arnica montana* 12293
  - *Boerhavia* 9851
  - *Bougainvillea* 9851
  - *Camellia* 11044
  - *Citrus* 805, 12015
  - *Coffea* 903, 4284, 5441
  - *Coffea arabica* 5441
  - *Dactylis glomerata* 3874
  - *Digitalis subalpina* 12292
  - *Diplotaxis* 13176
  - *Festuca* 1632
  - *Fortunella* 13099
  - *Glycyrrhiza pallidiflora* 8737
  - grasses 1647, 3901
  - *Lathyrus* 6102
  - *Leucaena leucocephala,* chloroplast genetics 13280
  - *Lotus corniculatus* 1676
  - *Lotus tenuis* 1676
  - *Macroptilium* 1686
  - *Melilotus* 6091
  - *Origanum intercedens* 2237
  - *Papaver argemone* 5670
  - *Papaver californicum* 5670
  - *Papaver macrostomum* 5670
  - *Pennisetum* 6005
  - *Pennisetum glaucum* 6005
  - *Peucedanum* 13388
  - *Picea* 13317
  - *Pinus elliottii* 7482
  - *Pinus flexilis* 2136
  - *Pogostemon cablin* 8746
  - *Quercus* 7445
  - *Quercus agrifolia* 2115-2116
  - *Quercus ilex* 6537
  - *Quercus rotundifolia* 6537
  - *Quercus wislizenii* 2115-2116
  - *Scabiosa argentea* 9877
  - *Scabiosa tenuis* 9877
  - *sesbania* 7067
  - *Sideritis* 2228
  - Solanaceae 11275
  - *Solanum,* tuberous species 4002
  - *Tagetes laxa* 5642
  - *Tagetes minuta* 5641
  - *Tagetes multiflora* 5642
  - *Tagetes riojana* 5641
  - *Tradescantia* 2194
  - *Ulmus* 5553
  - *Vaccinium* 13078
  - *Vigna glabrescens* 1772
  - *Vitex* 2227
- ***Chenopodium***
  - chromosome number 3867, 7016
  - cytotaxonomy 7016
  - evolution 7016
  - herbicides 12053
  - mixoploidy 3867
  - triazines 12053
- ***Chenopodium quinoa***
  - artificial selection 4907
  - breeding 7014
  - plant introduction 4907
- ***Chenopodium rubrum***
  - gene expression
    - heat shock proteins 10391
    - translocation 12775
- **Cherry leaf roll nepovirus**
  - *Juglans major,* genetics 9648
  - *Juglans nigra,* genetics 9648
  - *Juglans regia,* genetics 9648
- **Chiasmata** (*see* Crossing over)
- **Chilling requirement,** *Juglans regia* 8455
- ***Chilo,*** *Oryza sativa* 7011
- ***Chilo infuscatellus,*** *Saccharum officinarum* 5422
- ***Chilo partellus***
  - *Sorghum bicolor* 2717, 4873, 11519
  - *Zea mays* 2698-2699, 2702-2703, 4853, 4856, 9151, 9162-9163, 11508
    - artificial selection 1469
    - combining ability 1469
    - germplasm releases 9165
    - heterosis 9166
- ***Chilo suppressalis,*** *Oryza sativa,* genetic transformation 447
- ***Chilo tumidicostalis,*** *Saccharum officinarum* 8524
- **Chimaeras**
  - *Brassica campestris* 8473
  - *Brassica oleracea* 8473
  - *Citrus reticulata* 6326
  - *Citrus sinensis* 6326
  - *Linum usitatissimum,* flax 3333
  - *Musa* 1912
  - *Nicotiana glauca*
    - development 4304
    - shoots 4304
  - *Nicotiana tabacum* 13217
    - development 4304
    - leaves 7397
    - shoots 4304
  - *Petunia* 4438
  - *Polianthes tuberosa* 11079
  - *Rosa,* flowers 3382
  - *Solanum tuberosum* 6231
- ***Chionanthus,*** taxonomy 11018
- **Chitin,** crops, gene expression 1114
- **Chitinase** 5743
  - *Allium sativum,* molecular genetics 8299
  - *Arabidopsis thaliana,* gene expression 12423
  - *Beta vulgaris*
    - sugarbeet
      - gene expression 9710
      - nucleotide sequences 9710
  - *Cicer arietinum,* nucleotide sequences 5063
  - *Cucumis sativus* 5466
    - gene expression 3283, 13042
    - genetic engineering 3283
  - *Festuca arundinacea* 11646
  - genetic transformation, reviews 5731
  - genetics, reviews 5731
  - *Lycopersicon esculentum* 6278
  - molecular genetics 5741
  - *Nicotiana plumbaginifolia*
    - gene expression 3283
    - genetic transformation 3283
  - *Nicotiana sylvestris*
    - gene expression 3278, 5465
    - genetic transformation 3278, 5465-5466
  - *Nicotiana tabacum*
    - gene expression 3278, 3283, 3293, 6500, 7404
    - genetic engineering 3278, 3283
    - genetic transformation 3293, 5741, 6500, 8565, 10504
    - molecular genetics 7404
    - nucleotide sequences 8564
  - *Oryza sativa*
    - gene expression 3808
    - nucleotide sequences 3808
  - *Phaseolus vulgaris*
    - gene expression 10504
    - nucleotide sequences 10504
  - *Pisum sativum*
    - gene expression 2913
    - molecular genetics 2913
- **Chitinase** *cont.*
  - *Pisum sativum cont.*
    - mutations 10522
  - *Solanum tuberosum*
    - gene expression 6229
    - nucleotide sequences 6229
  - *Vigna angularis*
    - gene expression 9440
    - nucleotide sequences 9440
- **Chlorates,** *Arabidopsis thaliana,* mutations 5789
- **Chloride,** *Glycine max* 9368
- **Chlorimuron,** *Glycine max* 2877
- ***Chloris gayana,*** varieties, Hatsunatsu 464
- **Chlormequat**
  - triticale 4805-4806
  - *Triticum aestivum* 5886, 8898
- **Chlorogenic acid**
  - *Coffea* 903
  - *Lycopersicon esculentum* 10670
- **Chlorophyll**
  - *Antirrhinum majus,* molecular genetics 3407
  - *Arabidopsis thaliana*
    - complementation 6676
    - gene expression 6676
    - nucleotide sequences 6676
  - *Bougainvillea,* induced mutations 2163
  - *Brassica juncea*
    - chloroplast genetics 8476
    - recombination 8476
  - *Brassica oxyrrhina*
    - chloroplast genetics 8476
    - recombination 8476
  - *Brassica pekinensis*
    - cytoplasmic inheritance 4031
    - mutations 4031
  - *Cicer arietinum,* induced mutations 7127
  - *Cichorium intybus,* cytoplasmic inheritance 12989
  - *Cocos nucifera,* mutations 6378
  - *Cucurbita moschata,* genetics 11920
  - *Cyamopsis tetragonoloba,* induced mutations 3991
  - *Dendrocalamus strictus,* genetics 5677
  - *Elaeis guineensis,* genetics 13148
  - evolution 11252
  - *Glycine max*
    - induced mutations 7081
    - mutations 11708, 12853
  - *Gossypium hirsutum,* mutations 7413
  - *Helianthus annuus,* mutations 8496, 10864
  - *Hordeum vulgare* 6732, 7854
    - chloroplast genetics 7845
    - gene expression 7845
    - gene location 1363, 2600
    - induced mutations 3576, 4761, 5910, 10166-10167
    - lethals 2608
    - linkage 1360, 1362
    - mutations 1363, 2608, 7709
  - *Lens culinaris,* induced mutations 7121
  - *Lycopersicon esculentum*
    - mutations 5176, 8328, 9543
    - transposable elements 9543
  - *Melilotus alba*
    - gene expression 6090
    - genetics 484
    - induced mutations 6090
    - mutations 9307
  - mutations 6694
  - *Nicotiana tabacum,* mutations 12148
  - *Nicotiana* (×) *Spinacia* 3281
  - *Oryza sativa* 3833, 9220
  - *Phaseolus vulgaris,* mutations 10506
  - *Phleum pratense* 12804
  - *Secale cereale* 6732
    - induced mutations 6731
  - *Solanum tuberosum* 4004, 9465
  - *Sorghum bicolor* 4871
  - triticale 10213
    - induced mutations 3576, 6731
  - *Triticum aestivum* 4700, 4732, 6732
    - heterosis 4701
    - induced mutations 3576, 6731
    - mutations 7709
  - *Triticum durum* 5873
  - *Vigna aconitifolia,* induced mutations 3984
  - *Vitis vinifera* 10788

Chlorophyll *cont.*

- *Zea mays* 6897
  - chloroplast genetics 6894
  - gene expression 5962, 6894
  - mutations 6894
- *Zingiber officinale,* induced mutations 3431

Chlorophyll *a/b* binding protein

- *Amaranthus hypochondriacus,* nucleotide sequences 11616
- *Arabidopsis thaliana*
  - gene expression 2356, 7650, 10027, 12397
  - genetic engineering 2356
  - mutations 7650
  - nucleotide sequences 7629, 12397
- conifers, gene expression 7475
- evolution 8860
- *Ginkgo biloba*
  - gene expression 4385
  - molecular genetics 4385
- *Glycine max,* nucleotide sequences 10467
- *Gossypium hirsutum,* molecular genetics 942
- *Hordeum vulgare,* mutations 4763
- molecular genetics 8860
- *Nicotiana tabacum*
  - gene expression 2356, 5858
  - genetic transformation 2356, 5858
- *Oryza sativa*
  - chloroplast genetics 11586
  - gene expression 11586
- *Pinus contorta,* nucleotide sequences 7481
- *Pinus thunbergii*
  - gene expression 7479
  - nucleotide sequences 7479
- *Pisum sativum,* nucleotide sequences 8188
- *Triticum aestivum*
  - gene expression 5858
  - gene location 11311
  - genetic engineering 5858
  - restriction fragment length polymorphism 11311
- *Zea mays,* nucleotide sequences 4817

Chloroplast genetics 1140, 3488, 3494, 6659, 9988

- *Actinidia* 9603
- *Aegilops longissima* 7695
- *Agrostis stolonifera,* taxonomy 8062
- angiosperms
  - evolution 2398-2400
  - ribulose-bisphosphate carboxylase 2398-2400
  - taxonomy 2398-2400
- Asteridae
  - evolution 2402
  - ribulose-bisphosphate carboxylase 2402
  - taxonomy 2402
- *Astragalus,* taxonomy 495
- *Avena sativa* 5846
- *Beta maritima* 5433
- Betulaceae
  - evolution 3339-3340
  - ribulose-bisphosphate carboxylase 3339-3340
- *Brassica juncea*
  - chlorophyll 8476
  - chlorosis 8476
- *Brassica napus,* rape 10837
- *Brassica oxyrrhina*
  - chlorophyll 8476
  - chlorosis 8476
- *Castanea sativa,* evolution 3184
- *Catabrosa aquatica,* taxonomy 10411
- cereals, evolution 157
- *Citrus* 9626
- *Columnea,* taxonomy 13345
- Compositae
  - evolution 2404
  - ribulose-bisphosphate carboxylase 2404
  - taxonomy 2404
- *Cornus*
  - ribulose-bisphosphate carboxylase 3350
  - taxonomy 3350
- Crassulaceae 8728
- Cruciferae, taxonomy 9670

Chloroplast genetics *cont.*

- *Cucumis sativus,* aminolevulinic acid 9563
- *Cucurbita pepo,* heat shock 5212
- Cupressaceae
  - evolution 5610
  - ribulose-bisphosphate carboxylase 5610
- *Cyphomandra,* taxonomy 3568
- *Dasypyrum villosum* 3594, 7695
- *Dendrobium,* taxonomy 13379
- *Dioscorea,* taxonomy 626
- *Dioscorea cayenensis,* taxonomy 626
- *Dioscorea rotundata,* taxonomy 626
- *Disa,* taxonomy 8724
- *Eccoilopus,* evolution 7374
- *Elymus hispidus* 3594
- Empetraceae
  - ribulose-bisphosphate carboxylase 2403
  - taxonomy 2403
- Epacridaceae
  - ribulose-bisphosphate carboxylase 2403
  - taxonomy 2403
- *Erianthus,* evolution 7374
- Ericaceae
  - ribulose-bisphosphate carboxylase 2403
  - taxonomy 2403
- *Eucalyptus* 9773
  - evolution 972
  - taxonomy 972
- evolution 11257
- fatty oil plants
  - evolution 3188
  - ribulose-bisphosphate carboxylase 3188
  - taxonomy 3188
- *Festuca,* evolution 10401
- *Fortunella* 9626
- Geraniaceae
  - evolution 3368
  - ribulose-bisphosphate carboxylase 3368
  - taxonomy 3368
- *Glycine max* 3941
- *Gossypium barbadense* 8573
- *Gossypium hirsutum* 8573
- Gramineae, RNA polymerase 4912
- grasses
  - evolution 452, 11623
  - taxonomy 8062, 11623
- *Helianthus annuus* 4230
  - transfer RNA 12058
- *Helianthus neglectus,* evolution 6718
- *Helianthus petiolaris,* evolution 6718
- *Hevea brasiliensis,* ribulose-bisphosphate carboxylase 4344
- *Hordeum vulgare* 273, 5914, 7695, 12468
  - chlorophyll 7845
  - photosynthesis 10172, 11376-11377
  - ribulose-bisphosphate carboxylase 11376
- *Ipomopsis aggregata,* taxonomy 4430
- *Ipomopsis arizonica,* taxonomy 4430
- *Ipomopsis tenuituba,* taxonomy 4430
- *Iris brevicaulis* 11078
- *Iris fulva* 2200, 11078
- *Iris hexagona* 2200, 11078
- *Lens culinaris,* evolution 7125
- *Lens nigricans,* evolution 7125
- *Leucaena leucocephala*
  - chemotaxonomy 13280
  - isoenzymes 13280
- *Lotus* (×) *Oryza* 1672
- *Lotus* (×) *Oryza* 12730
- *Lupinus luteus* 4956
- *Lycopersicon,* taxonomy 3568
- *Lycopersicon* (×) *Nicotiana* 4058
- *Manihot,* evolution 3021
- mathematics 5823
- *Mesembryanthemum crystallinum* 12279
- *Mimulus guttatus* 999
- *Mimulus micranthus* 999
- *Miscanthus,* evolution 7374
- *Narenga,* evolution 7374
- *Nesphostylis,* taxonomy 12925
- *Nicotiana glutinosa* 8550
- *Nicotiana plumbaginifolia* 4297

Chloroplast genetics *cont.*

- *Nicotiana plumbaginifolia cont.*
  - ribosomal RNA 12122
  - streptomycin 920, 12122
- *Nicotiana sylvestris* 4297
- *Nicotiana tabacum* 5445, 8548, 8550, 12390
  - adenosinetriphosphatase 12128
  - evolution 11257
- *Oenothera berteriana* 2173
- *Oenothera odorata* 2173
- Onagraceae
  - evolution 3369
  - ribulose-bisphosphate carboxylase 3369
  - taxonomy 3369
- *Oryza sativa* 395, 397, 10381, 11573, 12390
  - chlorophyll *a/b* binding protein 11586
  - chloroplasts 9201
  - photosynthesis 11585, 12737
  - RNA polymerase 7603
- *Passiflora* 12020
- *Passiflora edulis* 12020
- *Paulownia* 12196
- *Paulownia taiwaniana* 12196
- *Pelargonium hortorum* 6564
- *Phaseolus,* taxonomy 5031
- *Phaseolus coccineus*
  - evolution 12879
  - taxonomy 12879
- *Phaseolus vulgaris* 8171
  - evolution 12879
  - taxonomy 12879
- *Phippsia algida,* taxonomy 10411
- *Picea,* evolution 4377
- *Pinus,* evolution 9819
- *Pinus attenuata* 13293
- *Pinus banksiana* 9813
- *Pinus caribaea,* taxonomy 13307
- *Pinus contorta* 9813
- *Pinus elliottii,* taxonomy 13307
- *Pinus muricata* 13293
- *Pinus oocarpa,* taxonomy 13307
- *Pinus radiata* 13293
- *Pinus sylvestris* 2130
- *Pinus thunbergii,* transfer RNA 12208
- *Pisum sativum* 3966, 6169
  - hydroxymethylbilane synthase 2904
  - proteins 12889
- Poaceae, taxonomy 12781
- *Poncirus* 9626
- *Prunus,* cherries 3140
- *Puccinellia,* taxonomy 10411
- *Quercus petraea* 8592
  - evolution 8596
- *Quercus pubescens* 8592
- *Quercus pyrenaica* 8592
- *Quercus robur* 8592
  - evolution 8596
- reviews 1146, 2347
- *Rhododendron canescens* 5616
- *Rhododendron flammeum* 5616
- ribosomal RNA 11261
- ribosomes 47
- *Rubus,* raspberries, variety classification 11986
- Saccharinae, evolution 13178
- *Saccharum,* evolution 7374
- *Saccharum barberi* 879
- *Saccharum officinarum* 879
  - evolution 13178
- *Saccharum robustum* 879
- *Saccharum sinense* 879
- *Saccharum spontaneum* 879
- Saxifragaceae 8728
  - evolution 3398
  - ribulose-bisphosphate carboxylase 3398
  - taxonomy 3398
- *Sclerochloa dura,* taxonomy 10411
- *Sclerostachya,* evolution 7374
- *Secale cereale*
  - G proteins 10206
  - taxonomy 4797
- *Secale strictum,* taxonomy 4797
- *Secale sylvestre,* taxonomy 4797
- *Sesleria insularis,* taxonomy 10411
- *Solanum,* taxonomy 3568
- *Solanum incanum,* taxonomy 693
- *Solanum marginatum,* taxonomy 693

- **Chloroplast genetics** *cont.*
  - *Solanum melongena,* taxonomy 693
  - *Solanum nigrum,* antibiotics 7540
  - *Solanum tuberosum* 1780, 9454
    - yields 1779
  - *Sorghum bicolor* 5846
    - cytoplasmic male sterility 6922
    - photosynthesis 331, 12471
    - ribulose-bisphosphate carboxylase 12471
  - *Sphenostylis,* taxonomy 12925
  - *Spinacia oleracea* 1820, 4039, 6255, 12976
    - adenosinetriphosphatase 10646
    - chloroplasts 9201
  - *Theobroma cacao,* evolution 8537
  - *Tripsacum,* taxonomy 12689
  - *Triticum aestivum* 3594, 7695, 10081
  - *Triticum durum* 7695
  - *Vicia,* evolution 9383
  - *Vicia faba,* evolution 9383
  - *Vigna,* taxonomy 3981
  - *Zea,* taxonomy 12689
  - *Zea mays* 309, 5846, 10230-10231, 12468
    - chlorophyll 6894
    - photosynthesis 331, 11455, 12471
    - ribulose-bisphosphate carboxylase 12471
    - RNA polymerase 7603
  - Zingiberales
    - evolution 2401
    - ribulose-bisphosphate carboxylase 2401
    - taxonomy 2401
  - *Zoysia japonica,* taxonomy 8062
- **Chloroplasts**
  - angiosperms 1203
  - *Arabidopsis thaliana*
    - gene expression 8811
    - gene mapping 8811
    - induced mutations 5783, 7646
    - nucleotide sequences 8811
  - *Beta vulgaris,* sugarbeet, genetic transformation 12387
  - *Brassica napus*
    - nucleotide sequences 9660
    - rape, gene expression 824
  - *Cucurbita pepo* 11919
  - *Glycine max,* restriction fragment length polymorphism 6129
  - *Hordeum vulgare,* induced mutations 4761
  - *Lycopersicon esculentum,* gene expression 9544
  - *Nicotiana tabacum*
    - genetic transformation 12387
    - mutations 2068, 12144
  - *Oryza sativa*
    - chloroplast genetics 9201
    - gene expression 9201
  - *Pinus banksiana,* paternal effects 9813
  - *Pinus contorta,* paternal effects 9813
  - *Pisum sativum*
    - molecular genetics 11754
    - nucleotide sequences 11754
  - *Spinacia oleracea*
    - chloroplast genetics 9201
    - gene expression 9201
  - *Zea mays,* heterosis 10268
- **Chlorosis**
  - *Arachis hypogaea* 5402
  - *Avena sativa* 12638
  - *Brassica juncea*
    - chloroplast genetics 8476
    - recombination 8476
  - *Brassica oxyrrhina*
    - chloroplast genetics 8476
    - recombination 8476
  - *Citrus* 13100
  - *Glycine max,* artificial selection 9365
  - *Hordeum vulgare*
    - gene expression 6821
    - nucleotide sequences 6821
  - *Lupinus angustifolius* 11686
  - *Trifolium subterraneum* 9301
  - *Triticum araraticum,* genetics 8916
  - *Triticum dicoccoides,* genetics 8916
  - *Triticum timopheevii,* genetics 8916
  - *Vitis, in vitro* selection 4161
- **Chlorothalonil,** *Lycopersicon esculentum* 3069
- **Chlorsulfuron**
  - *Brassica napus*
    - rape
      - *in vitro* selection 4226
      - mutations 4226
  - *Daucus carota, in vitro* selection 12948
  - *Kochia scoparia* 8061
  - *Nicotiana tabacum*
    - genetic transformation 6508
    - *in vitro* selection 4316
- **Chorismate synthase**
  - *Lycopersicon esculentum*
    - gene expression 4055
    - nucleotide sequences 4055
- ***Choristoneura occidentalis,*** *Pseudotsuga menziesii* 987, 3366
- **Chromatids** (*see also* Sister chromatid exchange)
- **Chromatin**
  - crops 6709
  - *Hordeum vulgare* 6826
  - *Mentha piperita* 7555
  - *Triticum aestivum* 3611
- ***Chromatomyia atricornis,*** *Linum usitatissimum,* linseed 5382
- ***Chromatomyia horticola,*** *Linum usitatissimum,* linseed 5382
- **Chromosome aberrations** 12436
  - *Adiantum capillus-veneris* 12281
  - *Allium,* somaclonal variation 9504
  - *Allium fistulosum,* somaclonal variation 9504
  - *Astragalus adsurgens* 8128
  - *Camellia* 11038
  - *Gloriosa plantii* 2201
  - *Gossypium*
    - seedlings 10965
    - seeds 10965
  - *Gossypium hirsutum,* somaclonal variation 9740
  - *Hordeum vulgare* 2596, 6825, 10037, 10165, 11383
  - *Nigella sativa* 9914
  - *Ornithogalum dubium* 11080
  - *Ornithogalum thyrsoides* 11080
  - *Oryza* 10362
  - *Pinus sylvestris* 3354
  - *Psathyrostachys* × *Triticum* 11316
  - *Secale cereale* 12643
  - *Solanum nigrum* 4475
  - *Solanum tuberosum* 11823
  - *Trichosanthes cucumerina* 1865
  - triticale 1389, 7874, 8989
  - triticale × *Triticum* 1389
  - *Triticum aestivum* 200
  - *Vicia faba* 528, 3540, 5000, 5798, 10037
  - *Zea mays* 1412, 10247, 11450
  - *Zingiber officinale* 9924
- **Chromosome addition**
  - *Aegilops longissima* 2572
  - *Aegilops triaristata*
    - *Puccinia graminis* 12583
    - *Puccinia recondita* 12583
  - *Aegilops* × *Triticum* 1281, 2572
    - aluminium 6763
    - brittleness 6763
    - *Pseudocercosporella herpotrichoides* 2532
    - *Puccinia graminis* 12583
    - *Puccinia recondita* 12583
    - toxic substances 6763
  - *Brassica alboglabra* 4219
  - *Brassica campestris* 4219
    - turnips
      - bolting 3993
      - roots 3993
  - *Brassica napus,* rape, *Leptosphaeria maculans* 10850
  - *Brassica nigra, Leptosphaeria maculans* 10850
  - *Brassica oleracea*
    - kale
      - bolting 3993
      - roots 3993
  - *Brassica* × *Raphanus*
    - bolting 3993
    - roots 3993
  - *Dasypyrum* × *Triticum* 2460
- **Chromosome addition** *cont.*
  - *Elymus* × *Triticum* 3536, 4688-4689, 5866
    - flooding 3888
    - isoenzymes 1287
  - *Gossypium hirsutum* 7411
  - *Hordeum chilense* 2651
  - *Hordeum vulgare* 2594, 3675, 10141, 12606
  - *Hordeum* × *Secale* 2651
  - *Hordeum* × *Triticum* 2430, 2593
  - *Lycopersicon chmielewskii,* quality 8335
  - *Lycopersicon esculentum*
    - quality 8335
    - quantitative traits 13009
    - yield components 13009
  - *Lycopersicon pennellii*
    - quantitative traits 13009
    - yield components 13009
  - *Milium montianum* 467
  - *Nicotiana africana* 7392
  - *Nicotiana tabacum* 7392
  - *Oryza australiensis*
    - *Nilaparvata lugens* 8016
    - *Xanthomonas oryzae* 8016
  - *Oryza sativa*
    - *Nilaparvata lugens* 8016
    - *Xanthomonas oryzae* 8016
  - *Pennisetum glaucum* 6000
  - *Raphanus sativus*
    - bolting 3993
    - roots 3993
  - *Secale cereale* 2651
    - nutrients 12477
  - *Secale* × *Triticum, Erysiphe graminis* 246
  - *Solanum phureja* 2962
  - *Solanum tuberosum* 2962
  - *Tripsacum dactyloides* 12688
  - triticale, secalins 6867
  - triticale × *Triticum*
    - lysine 8994
    - proteins 8994
  - *Triticum aestivum* 160, 1281, 1383, 2465, 2572, 8939, 10141, 12606
    - amylase inhibitors 12524
    - cytoplasmic male sterility 3612
    - flooding 3888
    - lysine 8994
    - nutrients 12477
    - proteins 8994
    - *Pseudocercosporella herpotrichoides* 2532
    - *Puccinia graminis* 8940, 12583
    - *Puccinia recondita* 8940, 12583
    - secalins 6867
  - *Triticum durum*
    - *Puccinia graminis* 12583
    - *Puccinia recondita* 12583
- **Chromosome banding**
  - *Aegilops longissima* 2572
  - *Aegilops* × *Triticum* 2572, 12582
  - *Avena,* genomes 6860
  - *Avena byzantina* 3687
  - *Cestrum parqui* 3429
  - *Citrus* 796, 5317
  - *Cypripedium japonicum* 12272
  - *Cypripedium segawai* 12272
  - *Dasypyrum villosum* 2467, 9269
  - *Dasypyrum* × *Triticum* 197, 2467
  - *Elymus hispidus* 8076
  - *Elymus* × *Triticum* 12498
  - *Hordelymus europaeus* 12800
  - *Hordelymus* × *Elymus* 12800
  - *Hordelymus* × *Hordeum* 12800
  - *Hordelymus* × *Secale* 12800
  - *Hordeum agriocrithon* 4756
  - *Hordeum vulgare* 1350, 4756, 12596
  - *Oryza sativa* 405
  - *Pennisetum glaucum* 6000
  - *Phaseolus* 8228
  - *Pseudotsuga menziesii* 4381
  - *Rumex acetosa* 7206
  - *Scilla autumnalis* 7524
  - *Scilla scilloides* 12267
  - *Secale cereale* 3696, 8980
  - *Secale* × *Triticum* 198
  - *Silene pratensis* 12250
  - *Thinopyrum distichum* 12801
  - triticale × *Triticum* 5941
  - *Triticum aestivum* 198, 2467, 2476, 2572, 3605, 12496

Chromosome banding *cont.*
Vicia faba 12870
Vigna 8228
Zea mays, techniques 7908
Chromosome breakage
Secale cereale 1383
Triticum aestivum 2464
Zea mays 319, 4822, 10248
transposable elements 9050
Chromosome disposition, *Allium triquetrum* 9506
Chromosome elimination
Hordeum bulbosum 12595
Lolium multiflorum 12786
Nicotiana plumbaginifolia 13218
Nicotiana tabacum 13218
Triticum aestivum 2465, 7740
Triticum durum 3600
Triticum × *Zea* 3600, 7740
Chromosome fragments (*see* Aneuploidy)
Chromosome maps (*see* Linkage)
Chromosome morphology 1189
Achillea 13394
Aegilops 6748
Aegilops speltoides 6748
Aegilops squarrosa 6748
Agrostis 2810
Alhagi pseudalhagi 489
Alhagi sparsifolia 489
Allium cepa 634
Amaranthus caudatus 11617
Amaranthus cruentus 11617
Amaranthus hypochondriacus 11617
Amaranthus mantegazzianus 11617
Anthurium 2179
Arabidopsis thaliana 11213
Arrhenatherum 2810
Avena 2810
Boehmeria 10986
Brassica alboglabra 12036
Brassica tournefortii 12036
Bromus 3895
Calamagrostis 2810
Cicer arietinum 6108
Citrus 5317
computer programming 10038
Coriandrum sativum 12296
Corydalis 2221
Deschampsia 2810
Elymus akmolinensis 7034
Elymus karataviensis 7034
Elymus × *Triticum* 6748
Festuca × *Vulpia* 3881
Fragaria ananassa 3148
Geum 2178
Gladiolus 1021
Glycine max 9338
Helictotrichon 2810
history 2377
Holcus 2810
Hordeum agriocrithon 4756
Hordeum vulgare 3675, 4756
molecular genetics 2376
Humulus lupulus 4485
Koeleria 2810
Lathyrus 10444
Lathyrus sativus, molecular genetics 2376
Lens culinaris 1744, 3970, 6108, 11764
Leymus cinereus 7034
Leymus salinus 7034
Malus 9574
Melilotus alba 6091
Melilotus suaveolens 6091
Milium 2810
Miscanthus 9267
Miscanthus sinensis 9267
Nelumbo lutea 1036
ornamental herbaceous plants 11061
Oryza sativa 12731
Panicum 9183
Paphiopedalum insigne, molecular genetics 2376
Pennisetum glaucum 6000
Phleum 4930
Picea 2142
Picea asperata 2142
Pinus 5581
Pisum sativum 6108
Platanus kerrii 5561
Platanus orientalis 5561
Chromosome morphology *cont.*
reviews 1193
Roscoea 6568
Scilla scilloides 12267
Secale cereale 2652
Secale × *Triticum* 298
Sedum 9905
Sesbania 1680
Sesbania goetzei 6100
Sesbania keniensis 6100
Sesbania sesban 6100
Solanum 10822
Solanum melongena 686
Solanum sisymbriifolium 687
Solanum torvum 687
Spinacia oleracea 5156
techniques 1191
Thinopyrum distichum 12801
Tradescantia commelinoides, molecular genetics 2376
Trifolium 10437
Trifolium pratense 8109
Trifolium repens 8109
Trisetum 2810, 7041
triticale 298
Triticum aestivum 2465, 6748
Triticum monococcum 6748
Umbelliferae 4631
Vicia faba 6108, 12870
Vicia sativa, molecular genetics 2376
Vigna 7149
Vigna mungo 9439
Zantedeschia 7523
Zantedeschia aethiopica 7523
Zantedeschia odorata 7523
Zea 7948
Zea mays 7948
mutations 9056
Zingeria 2810
Chromosome number 12461
Abies alba 5600
Abies concolor 5600
Abies grandis 5600
Acacia 978
Acacia auriculiformis 13278
Acacia mangium 13278
Actinidia deliciosa 6314
Aegilops × *Secale* 1382
Albizia 9799
Amaranthus 1622
Anethum 2217
Arecaceae 8616
Beta vulgaris, sugarbeet 13185
Boehmeria 10986
Boletus edulis 11124
Brassica (×) *Raphanus* 5357
Carum 2217
Centrosema 4964
Chenopodium 3867, 7016
Chrysanthemum cinerariaefolium 8677
Cicer canariense 2922
Clitoria biflora 11691
Clitoria ternatea 11691
Crocus sativus, somaclonal variation 9929
Crotalaria 962
Crotalaria juncea, induced mutations 961
Cuminum 2217
Cymbidium cyperifolium 8711
Dasypyrum × *Triticum* 12492
Festuca 11635
Foeniculum 2217
Galtonia candicans 13369
Geum 2178
Gladiolus 1021
Gossypium hirsutum, somaclonal variation 9740
Havardia 9799
Humulus lupulus 4485
Ipomoea 4019
Juglans regia 5335
Lathyrus 10444
Luzula 11652
Miscanthus × *Saccharum* 2008
Mussaenda erythrophylla 11043
Myosotis 3392
Nelumbo lutea 1036
Nicotiana tabacum 13217
ornamental herbaceous plants 11061
ornamental plants 7498
Panicum 11533
Chromosome number *cont.*
Petroselinum 2217
Peucedanum 13388
Pithecellobium 9799
Roscoea 6568
Rubus 761
Saccharum 5414
Saccharum officinarum 5413
Sechium 11941
Selinum 2217
Sesbania 1680
Sesbania goetzei 6100
Sesbania keniensis 6100
Sesbania sesban 6100
Sicana odorifera 11941
Solanaceae 1234
Solanum 10822
Solanum sisymbriifolium 687
Solanum torvum 687
Solanum tuberosum 11830
somaclonal variation 1790
Trifolium 10437
Trifolium alexandrinum, somaclonal variation 7053
Trifolium pratense 8109
Trifolium repens 8109
Umbelliferae 4631
Zea mays 11450
Chromosome pairing 1192, 4629
Aegilops squarrosa, gene location 12470
Aegilops × *Secale* 1382
Aegilops × *Triticum* 194, 12582
gene location 12470
genetics 3609, 7752
Agropyron cristatum 3884
Agropyron mongolicum 3884
Agropyron × *Triticum* 191
Allium triquetrum 9506
Asparagus 4048
Boletus edulis 11124
Brassica adpressa 7324
Brassica alboglabra 12036
Brassica campestris 6341
turnip rape 5356
Brassica carinata 12041
Brassica juncea 12040
Brassica napus, rape 5356, 6341, 7324, 12040-12041
Brassica oleracea 6341
cabbages 7324
kale 7324
Brassica tournefortii 12036
Camellia 11038
Clitoria biflora 11691
Clitoria ternatea 11691
Coriandrum sativum 12296
Crepis capillaris 105
Crotalaria juncea, induced mutations 961
Cuphea 6433
Cuphea lanceolata 6433
Cuphea viscosissima 6433
Dasypyrum × *Triticum* 2460, 12492
Dendrobium 8712
Elymus 3885, 4927, 7033, 9259, 10404
Elymus cacuminus 8079
Elymus caucasicus 4927
Elymus curvifolius 2802
Elymus elongatus 2802
Elymus farctus 2802
Elymus geniculata 2802
Elymus glaucissimus 7033
Elymus parviglumis 4927
Elymus patagonicus 7033
Elymus retroflexus 8079
Elymus semicostatus 3885
Elymus spicatus 8079
Elymus tschimganicus 7033
Elymus × *Hordeum* 10169
Elymus × *Triticum* 3601, 4686
Festuca arundinacea 459
Festuca gigantea 459
Festuca × *Lolium* 459
Gloriosa plantii 2201
Glycine max 7082
Gossypium 6512
Gossypium hirsutum 7409
Guizotia abyssinica 6432
Guizotia scabra 6432
Guizotia schimperi 6432
Helianthus annuus 11854
Helianthus tuberosus 11854

Chromosome pairing *cont.*
- *Lathyrus cassius* 12258
- *Lathyrus hirsutus* 12258
- *Lathyrus odoratus* 12258
- *Lens culinaris,* induced mutations 7121
- *Leymus* 8077
- *Lycopersicon esculentum* 7218
- *Lycopersicon peruvianum* 7218
- *Lycopersicon* (×) *Solanum* 7217
- mathematics 3539
- *Miscanthus* 9267
- *Miscanthus sinensis* 9267
- *Nicotiana tabacum* 6482
- *Oryza australiensis* 3814, 8016
- *Oryza ridleyi* 3814
- *Oryza sativa* 8016
- *Panicum* 9183
- *Paspalum cromyorrhizon* 2811
- *Paspalum dilatatum* 2811
- *Paspalum indecorum* 2811
- *Paspalum laxum* 2811
- *Plantago lanceolata* 4474
- *Poa bulbosa* 3871
- *Poa nemoralis* 3871
- *Poa pratensis* 3871
- *Poa supina* 3871
- *Prunus* 1897
- *Psathyrostachys* × *Triticum* 11316
- reviews 1190
- *Saccharum officinarum* 5413
- *Secale cereale* 293, 7869, 12643
  - mutations 12645
- *Secale* × *Triticum* 293, 298, 8870
  - gene location 12470
- *Solanum capsicoides* 1037
- *Solanum nigrum* 4475
- *Taeniatherum* × *Triticum* 7745
- triticale 298, 7874
- triticale × *Triticum* 5941
- *Triticum*
  - gene location 1282
  - gene mapping 1282
- *Triticum aestivum* 201, 1283, 7806, 10098, 11315
  - gene location 1282
  - gene mapping 1282
  - genetics 2474, 3603, 3609, 7752
  - mutations 196, 2474
- *Triticum monococcum* 201
- *Triticum timopheevii* 7806
- *Zea* 9066
- *Zea mays* 2678-2679, 9061, 9064-9065, 11449
  - mutations 9056
- *Zea perennis* 9064
- *Zingiber officinale* 9924

Chromosome substitution
- *Aegilops squarrosa* 10113
- *Aegilops ventricosa,* α-amylase 10103
- *Aegilops* × *Triticum* 1281, 2548
  - aluminium 6763
  - brittleness 6763
  - toxic substances 6763
- *Dasypyrum* × *Triticum* 197
- *Elymus farctus* 2472
- *Elymus* × *Triticum* 2472
- *Hordeum* × *Triticum* 2593
- *Secale cereale,* nutrients 12477
- *Secale* × *Triticum* 198
  - *Erysiphe graminis* 246
- triticale 2475, 3700, 3704, 6872
- triticale × *Triticum* 2475, 6872
  - drought resistance 4725
  - soil pH 4725
- *Triticum* 10113
- *Triticum aestivum* 198, 238, 1281, 2472, 2475, 10113, 11352
  - α-amylase 10103
  - drought resistance 4725
  - hybridization 12491
  - linkage 7749
  - nutrients 12477
  - photosynthesis 7751
  - polyamines 3643
  - recombination 7749
  - soil pH 4725
  - stress 3643
- *Triticum durum*
  - photosynthesis 7751
  - quality 12547
  - yield components 12547

Chromosome substitution *cont.*
- *Triticum monococcum*
  - linkage 7749
  - recombination 7749
- *Triticum timococcum,* α-amylase 10103
- *Triticum timopheevii,* α-amylase 10103

Chromosome translocation
- *Aegilops longissima* 7753
- *Aegilops uniaristata* 7753
- *Aegilops* × *Triticum* 1281
  - haploidy 2473
- *Avena byzantina* 3687
- *Citrullus lanatus* 11912
- *Elymus elongatus* 7035
  - *Puccinia graminis* 8940
  - *Puccinia recondita* 8940
- *Elymus hispidus,* barley yellow dwarf luteovirus 3889
- *Elymus* × *Triticum* 12498
  - barley yellow dwarf luteovirus 3536
- *Fragaria vesca* 10773
- *Hordeum bulbosum* 11382
- *Hordeum vulgare* 1351, 2592, 11382
- *Hordeum* × *Triticum* 2593
- *Lycopersicon esculentum* 4060
- *Oryza sativa* 12731
- *Secale cereale* 1384, 7871
  - *Erysiphe graminis* 8925
  - fertility 8889
  - reviews 195
  - secalins 159
- *Secale* × *Triticum*
  - anther culture 3625
  - isoenzymes 2488
  - *Mayetiola destructor* 1336, 11343
  - quality 11343
- *Sorghum bicolor* 6920
- triticale
  - glutenins 10214
  - quality 10214
- triticale × *Triticum*
  - aluminium 8886
  - quality 8886
  - toxic substances 8886
- *Triticum* 2466
- *Triticum aestivum* 193, 201, 1281, 1284-1285, 3602, 3604, 3608, 4690, 6749, 7035, 7750, 11315, 12501
  - aluminium 8886
  - barley yellow dwarf luteovirus 3889
  - cytoplasmic male sterility 12502
  - *Erysiphe graminis* 8925
  - fertility 8889
  - *Mayetiola destructor* 1336, 11343
  - *Puccinia graminis* 8940
  - *Puccinia recondita* 8940
  - quality 8886, 11343
  - reviews 195
  - *Schizaphis graminum* 8944
  - secalins 159
  - toxic substances 8886
  - yield components 12495
- *Triticum durum* 4685, 6749, 7753
  - haploidy 2473
- *Triticum monococcum* 201
- *Zea mays* 319, 3737, 7910, 9057
  - transposable elements 9040

Chromosome transmission 112
- *Brassica alboglabra* 4219
- *Brassica campestris* 4219
- *Secale cereale,* accessory chromosomes 3697
- *Secale* × *Triticum* 3625
- *Triticum aestivum* 3625
- *Zea mays,* cell division 3734

Chromosomes
- *Lycopersicon pennellii,* restriction fragment length polymorphism 7216
- *Vicia faba,* polymerase chain reaction 8165

Chrysanthemum (*see also Dendranthema*)
- *Frankliniella occidentalis* 3405
- *Liriomyza trifolii* 3404

Chrysanthemum cinerariaefolium
- chromosome number 8677
- tissue culture 8677

Chrysomela
- *Populus alba* 5548
- *Populus tremula* 5548
- *Populus tremuloides* 5548

Chrysopogon gryllus
- isoenzymes 10418
- pollution 10418

Chusquea, taxonomy 7557

Chymotrypsin inhibitors
- *Cicer arietinum* 4975
- grain legumes 4975
- *Nicotiana tabacum,* genetic transformation 8571
- *Psophocarpus tetragonolobus*
  - gene expression 5083
  - nucleotide sequences 5083

Cicer
- *Ascochyta rabiei* 572, 1754
- *Botrytis cinerea* 572, 1754, 12911
- *Corticium rolfsii* 1754
- *Fusarium oxysporum* 1754
- genetic resources 1747
- germination 9414
- proteins 9418
- taxonomy 9418

Cicer arietinum
- *Agrotis ipsilon* 574
- artificial selection 3972
- *Ascochyta rabiei* 573, 1753, 2928, 2930, 5066, 6114, 6208, 7134, 8209-8210, 9420, 12912
- *Botrytis cinerea* 10539-10543, 12911
- *Callosobruchus chinensis* 1756
- chromosome morphology 6108
- chymotrypsin inhibitors 4975
- cold resistance 1753, 6110, 8209, 10538
- combining ability
  - quality 7130
  - seeds 7130
- *Corticium rolfsii* 1755
- crop density 10539
- crop mixtures, *Brassica juncea* 8208
- diseases 7134, 8139
  - reviews 8140
- *Ditylenchus dipsaci* 8141
- drought resistance 6111, 7132-7133
- ethyl methanesulfonate 6202, 7127
- fruits 1748
- fungi 6114
- *Fusarium oxysporum* 1755, 2927, 2932, 7134, 8209, 9419
  - *Ascochyta rabiei* 6210
- gamma radiation 7127
- gene banks 5061
- gene expression
  - cysteine proteinase 9415
  - ethylene 9415
  - germination 9415
  - seeds 3975
- genetic resources 5061-5062, 6105, 6113, 8131, 9413
- genetic transformation 566, 10531
- genetic variance, yield components 2926
- genetics
  - *Ascochyta rabiei* 571
  - colour 567
  - fasciation 3974
  - leaves 10533
  - seeds 10534
- genotype environment interaction, yield components 568, 6205, 7128
- germplasm releases
  - *Ascochyta rabiei* 2931
  - drought resistance 11772
- growth period 11771
- heat resistance 6110
- heritability, yield components 2924
- *Heterodera* 8141
- heterosis
  - albumins 1752
  - development 9416
  - globulins 1752
  - *Helicoverpa armigera* 575
  - yield components 1746, 1749
- immunology 497
- induced mutations 6108
  - chlorophyll 7127
  - morphology 7127
  - nitrogenase 6202
  - yield components 6202
- insects 6117, 8142
- interspecific hybridization 1747, 6201
- linkage
  - colour 10534
  - flowers 10534

Cicer arietinum *cont.*
- linkage *cont.*
  - seeds 10534
- *Liriomyza cicerina* 1753
- *Macrophomina phaseolina* 1755
- *Meloidogyne* 8141
- methionine 6203
- molecular genetics 8207
  - *Ascochyta rabiei* 6209
  - NADPH:isoflavone oxidoreductase 6209
- multivariate analysis 9417
  - yield components 1749, 7128
- mutagens 6202, 7127
- mutations, fasciation 3974
- Nematoda 6116
- nodulation 6204
- nucleolus 497
- nucleotide sequences
  - chitinase 5063
  - cysteine proteinase 9415
- nutritive value 5065
- pathogens 6207
- photoperiodism 10532
- quality 6203
- *Rhizobium* 6204
- *Rhizoctonia solani* 1755, 2929
- salinity 6111
- seeds 1748, 6203
- soil pH 6204
- soil water 7131
- sowing date 3972, 6206, 11771
  - yield components 568
- stability, yield components 6205
- stress 6113, 6207, 9320
- temperature 10532
- tissue culture 569-570, 1751, 10536-10537, 12910
- trypsin inhibitors 5065
- tryptophan 6203
- variety trials 3972
- viruses 6115
- yield components 6206, 9417
- yield correlations 1750, 2923, 2925, 3976, 5064, 7129, 10535
- yields 10538
- varieties
  - Aydin-92 2921
  - Califfo 10529
  - Douyet 2921
  - Fardan 10529
  - ICCV10 3973
  - ILC195 10530
  - ILC72 10529
  - Izmir-92 2921
  - Menemen-92 2921
  - Noor-91 2921
  - Rizki 2921

Cicer canariense
- chromosome number 2922
- genetic resources 2922
- morphology 2922

Cicer echinospermum
- *Ascochyta rabiei* 572
- *Botrytis cinerea* 572
- interspecific hybridization 1747, 6201

Cicer macranthum, genetic resources 565, 2920

Cicer microphyllum, genetic resources 565, 2920

Cicer nuristanicum, genetic resources 565, 2920

Cicer pinnatifidum
- *Ascochyta rabiei* 572
- *Botrytis cinerea* 572

Cicer reticulatum, interspecific hybridization 6201

Cichorium
- mitochondrial genetics, taxonomy 9532
- restriction fragment length polymorphism, taxonomy 9532
- tissue culture 1826

Cichorium endivia
- interspecific hybridization 1826
- nitrates 10654
- plant composition 10654

Cichorium intybus
- cryopreservation 9531
- cytoplasmic inheritance, chlorophyll 12989
- fructose 5162

Cichorium intybus *cont.*
- interspecific hybridization 1826
- mitochondrial genetics, cytoplasmic male sterility 5161
- polymorphism, isoenzymes 6260
- protoplasts 12989
- roots 5162
- variety trials 11873

Cichorium **(×)** ***Helianthus***
- mitochondrial genetics, cytoplasmic male sterility 5161
- protoplast fusion 5161

Cinnamate 4-hydroxylase, *Vigna radiata,* nucleotide sequences 1764

Cinnamomum kruseanum, taxonomy 4481

Cinnamomum zeylanicum, yield correlations 9926

Cinnamyl-alcohol dehydrogenase
- *Aralia cordata*
  - gene expression 7539
  - nucleotide sequences 7539
- *Eucalyptus botryoides,* nucleotide sequences 8589
- *Eucalyptus gunnii,* nucleotide sequences 8588
- *Nicotiana tabacum*
  - gene expression 13228
  - genetic transformation 13228
- *Picea abies*
  - gene expression 986
  - molecular genetics 986

Citropsis **(×)** ***Citrus,*** protoplast fusion 10809

Citrullus lanatus
- amino acids 7238
- chromosome translocation 11912
- *Colletotrichum orbiculare* 13037
- complementation 10699
- cysteine synthase 10699
- *Fusarium oxysporum* 3092
- gamma radiation 11912
- genetic resources 6247
- genetic transformation 8370
- genetics
  - *Fusarium oxysporum* 13036
  - male sterility 11913, 13035
- heritability, yield components 10700
- induced mutations 11912
- nucleotide sequences 10699
- polymerase chain reaction 9535
- polyploidy 4109, 5210
- protoplasts 11914
- *Pseudomonas pseudoalcaligenes* 3091
- random amplified polymorphic DNA 9535
- rootstocks 6247
- tissue culture 4109
- zucchini yellow mosaic potyvirus 8371
- varieties
  - AU-Golden Producer 4108
  - AU-Sweet Scarlet 1859
  - Mimei Seedless-1 5210
  - Mimei Tetraploid 5210
  - Qing Hong Bao 13034

Citrus
- anthers 799
- artificial selection 12011
- aspartate aminotransferase 805, 9627
- biotechnology 7304
- breeding 789, 4176, 7301, 7303
- cell culture 13093
- centres of origin 6322
- chemotaxonomy 805, 12015
- chloroplast genetics 9626
- chlorosis 13100
- chromosome banding 796, 5317
- chromosome morphology 5317
- citrus tristeza closterovirus 12016
- cold resistance 806-807, 10811
- cryopreservation 13093
- development 9621
- evolution 805, 10810
- fertility 799
- flowering 9621
- fruits 13101
- gamma radiation 6326
- genetic distance 5316
- genetic resources 4175, 6322-6323, 7302
- genetics
  - acid phosphatase 3175-3176
  - seeds 8446
- graft hybridization 1913

Citrus *cont.*
- growth period 6325
- haploidy 13096
- harvesting 13101
- induced mutations, seedlessness 6326
- interspecific hybridization 795, 3176, 10807, 13096
- iron 13100
- isoenzymes 805, 5316, 9627, 13098
- leaves 10811
- limonoids 12015
- mitochondrial genetics 9626
- photosynthesis 9622
- *Phyllocnistis citrella* 5323
- *Phytophthora* 5322
- *Phytophthora citrophthora* 12016
- plant disorders 13101
- plant embryos 6324, 13098
- plant introduction 8444
- pollen 799
- pollen germination 13097
- polyploidy 1913, 13096
- proline 799
- protoplast fusion 795, 4178, 7301, 10807
- quality 1916
- random amplified polymorphic DNA 5316
- restriction fragment length polymorphism 4177, 5316, 9626
- rootstocks 5318, 7301, 13095
- seedlings 801
- storage, pollen 4169
- sugars 13101
- taxonomy 9625, 9627-9628
- tissue culture 7305, 9623-9624, 13093
- toxic substances 13100
- variety classification 13098
- variety trials 8444
- vigour 9622
- *Xanthomonas campestris* 4180, 8448
- varieties 7303
  - Ponggan 85-1 9620

Citrus aurantiifolia
- interspecific hybridization 3173
- polyploidy 798
- protoplast fusion 3173

Citrus aurantium, tissue culture 5321

Citrus cachexia, *Citrus sinensis* 4181

Citrus exocortis viroid
- *Citrus sinensis* 4181
- *Lycopersicon esculentum*
  - gene expression 8349-8350
  - nucleotide sequences 8349-8350

Citrus limon
- breeding 7303
- cytology 8445
- *Deuterophoma tracheiphila* 7301
- *in vitro* selection
  - *Deuterophoma tracheiphila* 3177
  - salinity 808
- protoplast fusion 7301
- storage, pollen 800
- tissue culture 7305
- varieties 7303

Citrus maxima
- benzyladenine 1914
- ethychlozate 1914
- gibberellic acid 1914
- growth regulators 1914
- parthenocarpy 1914
- variety trials 790
- varieties 5315
  - Benimadoka 793

Citrus paradisi
- breeding 7303
- varieties 7303

Citrus psorosis complex, *Citrus sinensis* 4181

Citrus reticulata
- artificial selection, fruits 5319
- breeding 7303
- chimaeras 6326
- citrus tristeza closterovirus 12016
- cytology 8445
- fertility 794
- genetic transformation 13094
- graft hybridization 6326
- interspecific hybridization 794, 3176
- isoenzymes 13098
- *Phytophthora citrophthora* 12016
- plant embryos 13098

- ***Citrus reticulata** cont.*
  - protoplasts 13094
  - taxonomy 7306
  - tissue culture 10808
  - variety classification 13098
  - varieties 7303
    - Encore 12012
    - Jiouyuezao 792
    - Meizhou Summer Jiaogan 5314
    - Nanfeng Miju 5319
- ***Citrus sinensis***
  - breeding 7303, 9619
  - chimaeras 6326
  - citrus cachexia 4181
  - citrus exocortis viroid 4181
  - citrus psorosis complex 4181
  - citrus tristeza closterovirus 12016
  - citrus xyloporosis 4181
  - cryopreservation 803
  - cytology 797, 8445
  - fertility 794
  - gamma radiation 797
  - graft hybridization 6326
  - induced mutations, seedlessness 797, 10806
  - interspecific hybridization 794, 3173
  - isoenzymes 13098
  - male sterility 797
  - ovule culture 5320
  - *Phyllocnistis citrella* 5323
  - *Phytophthora citrophthora* 12016
  - plant embryos 13098
  - polyploidy 804
  - protoplast fusion 3173
  - protoplasts 802
  - tissue culture 804, 10808, 12013-12014
  - variety classification 13098
  - variety trials 791, 5313
  - varieties 7303
    - Chislett Summer Navel 3172
    - Huaqing Few-Seeded-2 10806
    - Huaqing Seedless-1 10806
    - Summer Gold Late Navel 3171
- **Citrus tristeza closterovirus**
  - *Citrus* 12016
  - *Citrus reticulata* 12016
  - *Citrus sinensis* 12016
  - *Poncirus trifoliata* 12016
- **Citrus xyloporosis,** *Citrus sinensis* 4181
- ***Citrus* (×) *Atalantia*,** protoplast fusion 3174
- ***Citrus* (×) *Citropsis*,** protoplast fusion 10809
- ***Citrus* × *Poncirus***
  - cold resistance 8447
  - gamma radiation 4179
  - genetics, acid phosphatase 3176
  - *in vitro* selection, salinity 1242
  - intergeneric hybridization 1242, 3176, 4179, 8447, 12016
  - ovule culture 4179
  - *Phyllocnistis citrella* 5323
- ***Citrus* × *Severina*,** intergeneric hybridization 13095
- ***Cladosporium*** (*see also Cercospora; Fulvia; Venturia*)
- ***Cladosporium caryigenum***
  - *Carya illinoinensis* 5338, 10832
  - *Carya tomentosa* 10832
- ***Cladosporium cucumerinum***
  - *Cucumis sativus*
    - artificial selection 723
    - genetics 9564
    - linkage 9564
- ***Clarkia amoena***
  - artificial selection
    - flowers 12243
    - stems 12243
  - heritability
    - flowers 12243
    - stems 12243
  - inbreeding depression
    - flowers 12243
    - stems 12243
- ***Clarkia lewisii*,** molecular genetics, glucose-6-phosphate isomerase 3391
- ***Clarkia tembloriensis*,** mutations, flowers 1003
- **Classification** (*see* Taxonomy; Variety classification)
- ***Clavibacter michiganensis***
  - *Lycopersicon*, genetics 5183
  - *Lycopersicon esculentum* 10678
- ***Clavibacter michiganensis** cont.*
  - *Lycopersicon esculentum cont.*
    - somaclonal variation 4073
  - *Medicago sativa* 4946, 10420
  - *Solanum*, tuberous species 11836
  - *Solanum tuberosum* 8269, 8271, 10595-10597, 11836
- ***Clavibacter xyli***
  - *Saccharum* 2021
  - *Saccharum officinarum* 2020, 6450
- ***Claviceps africana*,** *Sorghum bicolor* 9179
- ***Claviceps fusiformis***
  - *Pennisetum glaucum* 9190, 10331, 12702
    - artificial selection 9189
- ***Claviceps purpurea***
  - *Secale cereale* 3699, 12647
  - triticale 3699, 10066
  - *Triticum aestivum* 10066
  - *Triticum durum* 10066
- ***Cleisostoma sikkimense*,** taxonomy 9897
- ***Cleistocalyx*,** taxonomy 7470
- **Cleistogamy**
  - *Medicago*, induced mutations 2826
  - *Sorghum bicolor* 9179
- ***Clematis*,** genetic resources 2153
- ***Clianthus formosus***
  - development 13337
  - flowers 13337
  - pollination 13337
  - self compatibility 13337
- ***Cliffordiochloa parvispicula*,** taxonomy 2816
- **Climate**
  - crops 12371
  - *Glycine max* 11277, 11695
  - *Phleum pratense* 1638
  - *Pinus banksiana* 5591
  - *Saccharum officinarum*, mathematics 6443
  - *Triticum aestivum* 217
  - *Zea mays* 11277
- **Clines**
  - *Abies alba*
    - isocitrate dehydrogenase 4378
    - isoenzymes 4378
  - *Aegilops squarrosa* 2573
- ***Clitoria*,** taxonomy 4968
- ***Clitoria biflora***
  - chromosome number 11691
  - chromosome pairing 11691
- ***Clitoria hanceana***
  - nomenclature 4969
  - taxonomy 4969
- ***Clitoria macrophylla***
  - nomenclature 4969
  - taxonomy 4969
- ***Clitoria ternatea***
  - chromosome number 11691
  - chromosome pairing 11691
  - tissue culture 13383
- ***Clivia miniata***
  - gene expression, lectins 8703
  - nucleotide sequences, lectins 8703
- **Clonal selection**
  - *Eucalyptus* 13253
  - *Pinus* 13253
- **Clonal variation** 4636 (*see also* Somaclonal variation)
  - *Anacardium occidentale* 10835
  - *Camellia sinensis*, photosynthesis 13194
  - *Chamaecyparis obtusa*, isoenzymes 991
  - forest trees
    - mathematics 13259
    - seed production 13259
  - *Fragaria chiloensis* 5279
  - *Larix*, rooting capacity 13321
  - *Picea sitchensis*, development 13312
  - *Pinus nigra*
    - cones 2138
    - seed production 2138
  - *Populus*
    - development 6541
    - proteins 6541
  - *Populus balsamifera*
    - growth period 2118
    - height 2118
  - *Populus deltoides*, yield components 13271
  - *Populus interamericana*, isoenzymes 6540
  - *Populus trichocarpa*
    - development 6541
  - *Populus trichocarpa cont.*
    - proteins 6541
  - *Prunus armeniaca*, quality 743
  - *Trifolium hybridum* 8108
  - *Trifolium pratense* 8108
  - *Trifolium repens* 8108
  - *Tsuga heterophylla*, height 9829
- **Clones**
  - forest trees
    - books 2264
    - mathematics 4370
  - *Olea europaea* 6409
  - *Picea abies*, mathematics 4370
- **Clover yellow vein potyvirus**
  - *Pisum sativum*
    - gene location 8203
    - genetics 8203
  - *Trifolium repens*
    - combining ability 11679
    - genetic variance 11679
- ***Clusia alata*,** random amplified polymorphic DNA, taxonomy 3351
- ***Clusia minor*,** random amplified polymorphic DNA, taxonomy 3351
- ***Clusia multiflora*,** random amplified polymorphic DNA, taxonomy 3351
- ***Cnaphalocrocis medinalis***
  - *Oryza sativa* 1618, 9243
    - genetic transformation 447
- ***Cochlearia*** (*see also Armoracia*)
- ***Cochliobolus carbonum***
  - *Zea mays*
    - gene expression 1467
    - genetic transformation 7956
    - genetics 1467
- ***Cochliobolus cynodontis*, *Cynodon dactylon*,** germplasm releases 9262
- ***Cochliobolus heterostrophus***
  - *Zea mays* 1466, 2691, 2693, 4840, 6906-6908, 9151
    - combining ability 4847
    - genetics 9153
    - restriction fragment length polymorphism 10292
    - sweetcorn 10300
- ***Cochliobolus lunatus***
  - *Sorghum bicolor* 6947
    - genetics 2710
- ***Cochliobolus miyabeanus*, *Oryza sativa*** 12762
- ***Cochliobolus sativus***
  - *Aegilops* 7806
  - *Festuca pratensis*, *in vitro* selection 12795
  - *Hordeum vulgare* 6738, 7715
  - *Secale cereale* 4660
  - triticale 4660
  - *Triticum* 7806
  - *Triticum aestivum* 4660, 7715, 7797
    - *in vitro* selection 223, 2531, 11335
- ***Cochliobolus victoriae***
  - *Avena sativa*
    - gene expression 12640
    - nucleotide sequences 12640
- ***Cocos nucifera***
  - artificial selection 6388
    - yields 6385, 6390-6391
  - *Bipolaris halodes* 6404
  - breeding 3226, 3230, 6370, 6379, 11268
    - history 6368-6369
  - centres of origin 856
  - *Ceratocystis paradoxa* 6406
  - combining ability 6380
    - yield components 12071
  - diseases 6404
  - drought resistance 6401-6403, 12072, 13155
  - ecotypes 6386, 13154
  - embryo culture 1975, 4240
  - evolution 856
  - experimental design, reviews 6374
  - flowering 1974, 5393, 6387, 6400
  - gene banks 6372
  - genetic load 6378
  - genetic resources 855, 3225-3230, 3233, 6372-6373, 6384
  - genetic variation 3231
    - isoenzymes 3232
    - phenolic compounds 3232
  - height 10872
  - heritability, seedlings 6393

- ***Cocos nucifera*** *cont.*
  - heterosis 6371, 6380
  - hybrid seed production 6381-6382, 10872
  - hybrid varieties 13151
  - hybridization 6379
  - *in vitro* culture 3233
  - inbreeding 6371, 13153
  - irregular bearing 6397
  - irrigation 6400
  - leaves 6391
  - multivariate analysis, morphology 13154
  - mutations
    - chlorophyll 6378
    - fruits 13153
    - inflorescences 13153
  - nitrogen 6391, 6398-6400
  - nutrients 6398-6400
  - oils 6396
  - *Oryctes rhinoceros* 6408
  - *Pestalosphaeria elaeidis* 6405
  - phosphorus 6391, 6398-6400
  - *Phytophthora heveae* 6407
  - pollen germination 6387
  - polyphenols, multivariate analysis 6386
  - potassium 6391, 6398-6400
  - precocity 6400
  - reciprocal effects 6383
  - roots 10873
  - seed dispersal 856, 1976
  - seedlings 6388-6389
  - stability, yields 1977, 6397
  - statistics, reviews 6374
  - storage, pollen 1974
  - tissue culture 4241, 6394-6395
  - variety classification 6372, 6386
  - variety trials 1973, 6375-6377, 6402
  - wide hybridization 6383, 10872
  - yield components 12070
  - yield correlations 6385, 6388, 6390, 6392
  - varieties 3228
    - Tagoloan 13152
    - WY78F1 13151
- ***Coffea***
  - caffeine 903
  - chemotaxonomy 903, 4284, 5441
  - chlorogenic acid 903
  - flavonoids 3275
  - genetic resources 4284
  - genetics, *Hemileia vastatrix* 7385
  - gynoecium 6467
  - *Hemileia vastatrix* 3275, 5442, 10923
  - interspecific hybridization 6468, 8533
  - isoenzymes 5441
  - mozambioside 903
  - plant composition 4284
  - pollen 6467
  - polyploidy 5442
  - random amplified polymorphic DNA 8533
    - taxonomy 904
  - self incompatibility 6468
  - superoxide dismutase 10923
  - taxonomy 10921
- ***Coffea arabica***
  - chemotaxonomy 5441
  - combining ability, *Glomerella cingulata* 10922
  - genetic transformation 902
  - genetics, *Hemileia vastatrix* 7385, 8536
  - *Hemileia vastatrix* 905, 9713
  - heritability, *Glomerella cingulata* 10922
  - isoenzymes 5441
  - leaves 9713
  - morphology 2046
  - plant introduction 4283, 8534-8536
  - protoplasts 10920
  - tissue culture 5440, 6470, 7384, 13198
  - variety trials 8534-8535
  - yield correlations 2046, 4283
- ***Coffea canephora***
  - artificial selection
    - drought resistance 12120
    - yield components 10919
  - genetic resources 4282
  - haploidy 10918
  - heritability, yield components 10919
  - isoenzymes 4282
  - polyembryony 10918
  - seedlings 6469
  - tissue culture 5837
- ***Coffea eugenioides,*** tissue culture 12119
- ***Coix lacryma-jobi***
  - gene expression
    - α-coixin 6883
    - DNA binding proteins 6883
  - tissue culture 4908
- **α-Coixin**
  - *Coix lacryma-jobi,* gene expression 6883
  - *Nicotiana tabacum*
    - gene expression 6883
    - genetic transformation 6883
  - *Zea mays,* gene expression 6883
- **Colchicine**
  - *Lycopersicon esculentum* 1834
  - *Miscanthus* × *Saccharum* 2008
  - *Musa* 6321
  - *Vigna unguiculata* 12916
- ***Colchicum feinbruniae,*** taxonomy 2205
- **Cold**
  - *Arabidopsis thaliana*
    - gene expression 3502, 5785, 7654, 7659, 12409
    - genetic transformation 5785
    - nucleotide sequences 7659, 12409
  - *Beta vulgaris,* sugarbeet 7377
  - *Brassica napus*
    - rape
      - gene expression 5353
      - nucleotide sequences 5353
  - *Cestrum parqui* 3429
  - *Hordeum vulgare* 11391
    - gene expression 3669, 8964
    - nucleotide sequences 3669
  - *Lycopersicon esculentum* 7228
  - *Oryza sativa* 4896
  - *Papaver somniferum* 1052
  - *Triticum aestivum*
    - gene expression 187
    - molecular genetics 187
  - *Zea mays,* gene expression 9148
- **Cold resistance** 11163
  - *Acer* 9853
  - *Actinidia arguta* 5305
  - *Actinidia deliciosa* 5305
  - *Aegilops* 7784
  - *Aegilops squarrosa* 7791
  - *Arabidopsis thaliana*
    - gene expression 6678, 10029, 13232
    - genetic engineering 13232
    - mutations 6678
    - nucleotide sequences 7627
  - *Arachis hypogaea* 4262, 12081
  - *Arachis monticola* 4262
  - *Avena sativa* 4792
  - *Beta vulgaris,* sugarbeet, *in vitro* selection 8530
  - *Brassica campestris* 5376
  - *Brassica napus,* rape 3190
  - *Brassica oleracea,* cauliflowers 6252
  - *Bromus inermis,* gene expression 12808
  - *Camellia sinensis* 13197
  - *Capsicum annuum* 13026
  - cereals 7022, 11289
    - molecular genetics 7713
  - *Chamaecyparis nootkatensis* 8658
  - *Cicer arietinum* 1753, 6110, 8209, 10538
  - *Citrus* 806-807, 10811
  - *Citrus* × *Poncirus* 8447
  - *Cucumis sativus* 721-722, 1863, 8373
  - *Cucurbita ficifolia* 722
  - *Cynodon dactylon,* artificial selection 8083
  - *Dactylis glomerata* 2786, 7022
    - artificial selection 3870
    - heritability 1626
  - *Echium pininana,* natural selection 995
  - *Elymus spicatus* 12797
  - *Eucalyptus* 5533
  - *Eucalyptus globulus* 5533
  - *Eucalyptus grandis* 9782
  - *Eucalyptus gunnii* 7441, 9780
  - fatty oil plants, reviews 5376
  - *Festuca pratensis,* artificial selection 3870, 11619
  - *Foeniculum vulgare* 7554
  - *Fortunella* 806
  - *Glycine max* 11695, 12863
  - grain legumes, breeding 8136
  - grasses 2786-2787, 7022, 11289
  - herbage crops 11620
  - *Hordeum vulgare* 6736, 7022, 7855, 10185, 11290-11291, 11391-11392
- **Cold resistance** *cont.*
  - *Hordeum vulgare cont.*
    - artificial selection 5920
    - genetics 5919
    - molecular genetics 7713
  - *Lens culinaris* 6110
  - *Lolium perenne* 2786, 2794, 3879, 4917, 8069, 10399, 11278
    - *in vitro* selection 11631
  - *Lupinus albus* 6094
  - *Lycopersicon esculentum* 678, 5182, 6271, 9546
  - *Lycopersicon hirsutum* 678
  - *Malus pumila* 13051
  - *Medicago falcata,* nucleotide sequences 4941
  - *Medicago sativa* 10420
    - gene expression 477, 8104, 9288
    - genetic transformation 6084
    - nucleotide sequences 8104
  - *Medicago varia* 6080
  - *Nicotiana plumbaginifolia*
    - gene expression 6084
    - genetic engineering 6084
  - *Nicotiana tabacum*
    - gene expression 935, 13232
    - genetic transformation 935, 13232
  - *Olea europaea* 5399
  - ornamental woody plants 9855
  - *Oryza sativa* 441, 1597, 2749, 3848, 6050
    - genetic variance 12756
    - induced mutations 12760
    - natural selection 1598
  - *Phaseolus vulgaris,* artificial selection 7099
  - *Phleum pratense* 11278, 11618
    - artificial selection 11619
  - *Picea abies* 5596
  - *Pinus attenuata* 6552
  - *Pinus radiata* 6552
  - *Pinus sylvestris,* maternal effects 13308
  - *Pinus taeda* 9820
  - *Pisum sativum* 6110, 6195
    - artificial selection 6194
  - *Prunus,* plums 3134
  - *Prunus avium* 10751, 13065
  - *Prunus cerasifera* 10744
  - *Prunus domestica* 11958
  - *Prunus persica* 11958, 11980, 13069
  - *Pseudotsuga menziesii* 5607, 12307
  - *Pyrus communis* 3124
  - *Ribes nigrum* 13074
  - *Rosa* 9855
  - *Rubus idaeus* 3141, 5267
  - *Saccharum,* artificial selection 6449
  - *Saccharum officinarum* 5420, 6447
  - *Secale cereale* 6736, 11278, 11290-11291
  - *Sicyos angulatus* 722
  - *Solanum,* tuberous species 10589
  - *Solanum acaule* 2974
  - *Solanum commersonii* 2974, 4003, 8259
  - *Solanum tuberosum* 2974, 4003-4004, 6238, 8259
    - gene expression 8260
    - molecular genetics 8260
  - *Stenotaphrum secundatum* 10416-10417
  - *Trifolium pratense* 4953, 11278, 11618
    - artificial selection 11619
  - triticale 11291
  - *Triticum* 7784, 7791
  - *Triticum aestivum* 1254, 1303, 5888, 6736, 6767, 10125, 10130, 11278, 11290-11291, 11347-11348, 11354, 12556
    - artificial selection 12557, 12560
    - gene expression 8919
    - genetic markers 11344
    - genetics 8875
    - *in vitro* selection 1330
    - molecular genetics 8919
  - *Triticum durum* 136, 5876, 7784
  - *Vicia ervilia* 9306
  - *Vicia faba* 6110
  - *Vicia sativa* 9306
  - *Vicia villosa* 9306
  - *Vitis, in vitro* selection 9600
  - *Vitis amurensis* 782-783
  - *Vitis vinifera* 782-783, 1069, 7292, 10795

- **Cold resistance** *cont.*
  - *Zea mays* 1465, 3761, 9149, 10287
    - artificial selection 1461, 4837, 6900
    - combining ability 3759
    - gene expression 5984, 10290
    - genetics 1463, 3763
    - molecular genetics 10290
    - reviews 11495
- ***Coleosporium ipomoeae,*** *Pharbitis purpurea,* genetics 3402
- ***Coleus forskohlii***
  - essential oils 13387
  - polyploidy 13387
- ***Coleus rotundifolius***
  - gamma radiation 11857
  - induced mutations, yield components 11857
- ***Colletotrichum*** (*see also Glomerella*)
  - crops 2310
- ***Colletotrichum capsici,*** *Capsicum annuum* 1855
- ***Colletotrichum dematium***
  - *Pharbitis purpurea*
    - genetics 3402
    - natural selection 4433
- ***Colletotrichum fragariae,*** *Fragaria ananassa* 8422
- ***Colletotrichum gossypii,*** *Gossypium* 3329
- ***Colletotrichum graminicola***
  - *Sorghum bicolor* 2712, 6946, 6949
    - genetics 6950
  - *Zea mays* 10299
    - combining ability 346, 4842
    - genetic variance 4842
    - genetics 7958
    - genotype environment interaction 346
- ***Colletotrichum lindemuthianum***
  - *Phaseolus vulgaris* 541, 2898, 9394
    - artificial selection 2884
    - gene expression 540, 6159
    - gene mapping 6167
    - genetics 2896
    - random amplified polymorphic DNA 12883
    - restriction fragment length polymorphism 12883
- ***Colletotrichum orbiculare***
  - *Citrullus lanatus* 13037
  - *Cucumis sativus,* gene expression 5464
- ***Colletotrichum trifolii,*** *Medicago sativa* 10430
- ***Colletotrichum truncatum,*** *Pisum sativum* 9407
- ***Colocasia esculenta***
  - aluminium 9491-9492
  - genetic resources 12960
  - multivariate analysis, yield components 4022
  - nucleotide sequences, proteins 12961
  - nutritive value 7183
  - sugars 7183
  - toxic substances 9491-9492
  - variety classification 12960
- **Colour**
  - *Abies,* computer programming 12229
  - *Acer rubrum* 13339
  - *Aegilops × Triticum*
    - genetics 10096
    - inhibitor genes 10096
  - *Agaricus bisporus* 11125
  - *Agaricus bitorquis* 11125
  - *Antirrhinum,* gene expression 4423
  - *Antirrhinum majus*
    - gene expression 4436
    - induced mutations 6580
    - mutations 12261
    - nucleotide sequences 12261
    - transposable elements 4436
  - *Arabidopsis thaliana*
    - induced mutations 8815
    - transposable elements 8815
  - *Brassica carinata,* genetics 8482, 13135
  - *Brassica juncea,* genetics 13135
  - *Brassica napus*
    - rape 1947
      - genetics 9666, 13135
  - *Buddleja,* genetics 992
  - *Caladium hortulanum,* somaclonal variation 7536
  - *Capsicum annuum*
    - genetics 4095
- **Colour** *cont.*
  - *Capsicum annuum cont.*
    - induced mutations 1848, 4095
  - *Catharanthus roseus* 11100
  - *Cicer arietinum*
    - genetics 567
    - linkage 10534
  - *Corchorus capsularis,* genetics 2103
  - *Cucumis sativus,* genetics 3099
  - *Cucurbita moschata,* genetics 11921
  - *Cucurbita pepo*
    - genetics 11923
    - mutations 11923
  - *Dendranthema* 12260
    - mutations 12260
  - *Dendranthema grandiflora,* genetic transformation 8680
  - *Dianthus,* induced mutations 4428
  - *Elymus trachycaulus,* genetics 10406
  - *Elymus × Triticum* 7796
  - Ericaceae, genetics 12233
  - genetic engineering 1237
  - genetics 1237
  - *Gerbera jamesonii* 5638
  - *Glycine,* genetics 10479
  - *Glycine max*
    - genetics 2861, 6131
    - mutations 2861
    - pleiotropy 1701
  - *Gossypium hirsutum* 13238
    - genetics 3323
  - *Hibiscus cannabinus,* stability 4343
  - *Hibiscus radiatus,* stability 4343
  - *Ipomoea batatas* 9488
  - *Malus pumila* 9578
    - genetics 8382
  - *Olea europaea* 12073
  - ornamental conifers, computer programming 12229
  - ornamental herbaceous plants, genetic engineering 13330
  - ornamental plants, genetic engineering 2151, 9836
  - ornamental woody plants, computer programming 12229
  - *Ornithogalum dubium* 11080
  - *Ornithogalum thyrsoides* 11080
  - *Oryza sativa*
    - genetics 11587
    - linkage 11587
  - *Petunia*
    - gene expression 4423
    - molecular genetics 2198
  - *Petunia hybrida* 8663
    - gene expression 2197, 4440
    - genetic engineering, reviews 1019
    - nucleotide sequences 4440
  - *Phalaenopsis* 9895
  - *Pharbitis purpurea*
    - genetics 2190
    - natural selection 2190
    - polymorphism 12254
  - *Phaseolus*
    - genetics 12874
    - mutations 12874
  - *Phaseolus coccineus* 537
  - *Phaseolus vulgaris*
    - gene expression 8174
    - genetics 1724, 12875
    - induced mutations 1724
    - linkage 1724
    - mutations 5035, 8174
  - *Platycodon grandiflorus,* artificial selection 11056
  - *Prunus persica* 11966
  - *Pyracantha* 4405
  - *Rosa*
    - genetic engineering 13330
    - molecular genetics 8663
  - *Solanum tuberosum*
    - gene location 5096
    - genetics 5096
  - *Tradescantia*
    - induced mutations 12256
    - mutations 9876
  - *Triticum aestivum* 1295, 2482
    - gene dosage 12509
    - gene mapping 12534
    - genetics 10096, 12534
    - inhibitor genes 10096
    - linkage 12509
- **Colour** *cont.*
  - *Triticum aestivum cont.*
    - pleiotropy 12534
  - *Triticum durum* 1295
  - *Triticum turgidum,* genetics 11324
  - *Vaccinium angustifolium,* genetics 3145
  - *Vigna mungo,* genetics 9441
  - *Vitis vinifera,* mutations 3159
  - *Zea mays* 6890
    - accessory chromosomes 7909
    - artificial selection 10282
    - crossing over 9041
    - deletions 9055
    - gene expression 3747
    - genetics 7922, 9033, 9035, 9110, 10257, 10282
    - history 10282
    - lethals 9041
    - linkage 9041
    - molecular genetics 7922
    - multiple alleles 7909
    - mutations 7929, 9032, 9110, 10249, 10266, 11445
    - transposable elements 9032, 10249, 11445
- ***Columnea***
  - chloroplast genetics, taxonomy 13345
  - morphology 13344
  - restriction fragment length polymorphism, taxonomy 13345
  - taxonomy 13344
- **Combining ability**
  - *Abelmoschus esculentus,* yield components 726, 10712
  - *Anacardium occidentale* 13098
  - *Arachis hypogaea*
    - canopy 1982
    - yield components 1982, 10879
  - *Asparagus officinalis, Puccinia asparagi* 5160
  - *Beta vulgaris*
    - sugarbeet
      - sugars 3271
      - yields 3271, 9703
  - *Brassica campestris,* turnips, yield components 3016
  - *Brassica carinata,* yield components 10843
  - *Brassica juncea*
    - *Albugo candida* 10849
    - growth period 832
    - yield components 834, 1951
    - yields 10849
  - *Brassica napus*
    - rape
      - anatomy 12043
      - seedlings 12043
      - yield components 5368
  - *Cajanus cajan,* yield components 1760-1761, 9423
  - *Capsicum annuum,* yield components 1851, 5195
  - *Carthamus tinctorius*
    - oils 12064
    - yield components 10868, 12064
  - *Cicer arietinum*
    - quality 7130
    - seeds 7130
  - *Cocos nucifera* 6380
    - yield components 12071
  - *Coffea arabica, Glomerella cingulata* 10922
  - *Corchorus olitorius,* yield components 957
  - *Cucumis melo, Pseudoperonospora cubensis* 13029
  - *Cucumis sativus,* germination 11934
  - *Cucurbita*
    - cucumber mosaic cucumovirus 13039
    - *Sphaerotheca fuliginea* 13039
  - *Cucurbita maxima,* yield components 4110
  - *Elymus hispidus*
    - digestibility 9261
    - quality 9261
  - *Fragaria ananassa*
    - *Botrytis cinerea* 3150
    - mechanical harvesting 3150
    - quality 3150
  - *Glycine gracilis,* yield components 12835, 12841

Combining ability *cont.*
  Glycine max
    Cercospora sojina 7094
    crop mixtures 4993
    oils 518
    proteins 518
    yield components 3947, 4993, 8156, 12835, 12841
  Gossypium
    quality 6509, 10977
    yield components 4329
  Gossypium arboreum, yield components 2088-2089, 2091, 4327, 5501, 10973
  Gossypium barbadense, yield components 5499
  Gossypium hirsutum 12162
    germination 4322
    harvest index 3324
    quality 8575, 13241
    yield components 4331-4332, 5499, 5503, 6517, 8575, 13241
    yields 3324
  Helianthus annuus
    oils 7344
    yield components 1966-1967, 4234, 5387, 6359-6360, 8497, 10862
    yields 7344
  Hevea brasiliensis, yield components 966
  Hordeum vulgare
    quality 282, 5918
    yields 5918
  Lycopersicon esculentum
    yield 5178
    yield components 3061, 11889
    yields 3057
  Malus pumila
    development 3112
    dormancy 3112
    precocity 10725
    seasonal growth 3112
  Medicago sativa, aluminium 8105
  Nicotiana tabacum
    seedlings 8556
    yield components 933
  Oryza sativa 12727
    embryo culture 1570
    growth period 9221
    photosynthesis 10367
    tissue culture 1570
    yield components 423, 1562-1563, 1565, 1569, 2737, 3835-3836, 8022, 11589, 11592
  Papaver somniferum, yield components 2224
  Pennisetum glaucum 1506
    cytoplasmic male sterility 6008
    forage 3788
    growth period 6002
    male sterility 7984
    photoperiodism 6002
    Sclerospora graminicola 6008
    Tolyposporium penicillariae 7986
    yield components 1504, 3787, 6959, 7984, 10327-10329, 11538-11539
    yields 3788
  Pinus taeda, Cronartium fusiforme 4369
  Prunus, plums, *Xanthomonas campestris* 4135
  Prunus dulcis, yield components 13116
  Prunus salicina, Xanthomonas campestris 4135
  Pseudotsuga menziesii
    wind 7495
    yield components 7494
  Ricinus communis, yield components 4267
  Secale cereale
    Erysiphe graminis 6869, 7873
    Fusarium culmorum 2656, 2659
    Gibberella zeae 2656, 2659
    Pseudocercosporella herpotrichoides 2656
  Sesamum indicum
    Macrophomina phaseolina 1995
    shedding 4268
    yield components 871, 6428
  Solanum melongena
    habit 690
    height 690

Combining ability *cont.*
  Solanum melongena cont.
    yield components 3081, 4080, 6283
  Solanum tuberosum 2947
    Fusarium solani 8272
    Gibberella cyanogena 8272
    mechanical damage 1796, 8258
    Phytophthora infestans 8276
  Sorghum, cyanogens 11526
  Sorghum bicolor
    Cercospora sorghi 1486
    forage 4862
    germination 7977
    growth period 3773
    hydrogen cyanide 11523
    leaves 4862
    Ramulispora sorghi 1486
    Ramulispora sorghicola 1486
    yield components 3772-3773, 4863, 5992, 6932-6933
  Spinacia oleracea, yield components 648
  statistics 8776
  Trifolium repens
    alfalfa mosaic alfamovirus 11679
    clover yellow vein potyvirus 11679
    peanut stunt cucumovirus 11679
  triticale, yield components 6873
  Triticum aestivum
    abscisic acid 11346
    anther culture 222
    boron 2512
    development 11329
    drought resistance 11346
    Erysiphe graminis 11363
    Gibberella zeae 2524
    growth regulators 11346
    nutrients 2512
    photoperiodism 205
    proteins 10116
    Puccinia recondita 251
    quality 10116
    seeds 11329
    sprouting 12516
    temperature 205
    Tilletia indica 249, 8927
    tissue culture 4707
    yield components 205, 219, 4707, 10109-10110, 10121, 11323, 11332, 11346
    yields 10116
  Triticum durum
    anther culture 8905
    carboxylases 8896
    proteins 8896
    ribulose-bisphosphate carboxylase 8896
  Vaccinium angustifolium
    fruits 3146
    quality 3146
  Vaccinium corymbosum
    fruits 3146
    quality 3146
  Vigna radiata
    harvest index 10556
    yield components 7152
  Zea mays 304, 7912
    Chilo partellus 1469
    Cochliobolus heterostrophus 4847
    cold resistance 3759
    Colletotrichum graminicola 346, 4842
    development 329, 10267
    digestibility 1455
    endosperm 5977
    Gibberella zeae 2695
    insects 3752
    lodging 1430, 6891
    moisture content 340
    nitrogen 1460
    nutrients 1460
    nutritive value 1443
    Ostrinia nubilalis 7970
    quality 5977
    regenerative ability 10275
    Setosphaeria turcica 9154
    silage 1455
    Striga hermonthica 11515
    tissue culture 10275
    yield components 333, 340, 346, 1393, 2676, 3752, 3769, 9118
    yields 6875
    zinc 9087

Combining ability *cont.*
  Zea mays cont.
    sweetcorn, yield components 1433
Commiphora wightii, tissue culture 8620
Compatibility
  Corylus avellana 9653
  Elymus × *Triticum,* reciprocal effects 5861
  Leucaena 8127
  Oryza sativa 2742
    genetics 10360
  Petunia hybrida 9882
  Prunus armeniaca 3131
  Prunus avium 11964
  Rosa 2171
  Triticum aestivum, gene location 12491
Competitive ability
  Avena sativa 11288
  Bouteloua rigidiseta 10414
  cereals 1251
  genetic resources 1
  genetics, reviews 2317
  Holcus lanatus 10412
  Hordeum vulgare 1251, 2422, 5927, 11288
  Nemophila menziesii, heritability 4431
  Picea abies 6546
  Pinus pinaster 6546
  Pinus sylvestris 6546
  Solanum tuberosum 9449
  Trifolium repens 9302
  Triticum aestivum 1251, 2422, 2514, 5886, 5900, 8915
    genetic variance 4720
  Triticum durum 1251
Complementary genes (*see* Genetics; Multiple genes)
Complementation
  Arabidopsis thaliana
    chlorophyll 6676
    glutamate 1-semialdehyde 2,1-aminomutase 6676
    glutamine tRNA reductase 6676
    organelles 4581
  Citrullus lanatus 10699
Compositae
  chloroplast genetics
    evolution 2404
    ribulose-bisphosphate carboxylase 2404
    taxonomy 2404
  evolution, mathematics 125
Composite varieties (*see also* Genotype mixtures)
  Gossypium hirsutum 4319
Computer programming 2292, 4536
  Abies
    colour 12229
    ornamental value 12229
  artificial selection 2295
  books 5707
  chromosome morphology 10038
  crops 6767
  evolution 6710
  forest trees, experimental design 13256
  genetic distance 1172
  Lilium 2210
  molecular genetics 2334
  morphology 132
  nucleotide sequences 12317-12318, 12377
    genetic distance 2372
  ornamental conifers
    colour 12229
    ornamental value 12229
  ornamental woody plants 5611
    colour 12229
    ornamental value 12229
  Oryza sativa 7007
    nucleotide sequences 10357
  population genetics 95-96, 1172
  Prunus persica, varieties 9587
  Saccharum officinarum, breeding 875, 9695
  taxonomy 132, 2407, 7682
  Triticum aestivum 6767
  Umbelliferae 4631
Computer simulation
  artificial selection 1083
  forest trees
    breeding 2110

- **Computer simulation** *cont.*
  - forest trees *cont.*
    - genetic variance 2111
    - genotype environment interaction 2111
  - genetics 11234
  - heterozygosity 5792
  - *Hordeum vulgare,* breeding 2575
  - *Pinus radiata,* breeding 2110
  - *Pinus sylvestris,* artificial selection 5579
  - protoplast fusion 4638
  - recombination 12424
- **Cones**
  - *Larix lyallii* 8648
  - *Larix occidentalis* 8648
  - *Pinus banksiana* 8633
  - *Pinus chiapensis* 5585
  - *Pinus gerardiana*
    - genetic variance 3357
    - heritability 3357
  - *Pinus nigra*
    - clonal variation 2138
    - heritability 2138
  - *Pinus sylvestris* 9815
- **Conferences**
  - 11th International Chromosome Conference 3541, 3573-3575, 3697, 4628-4629, 5690
  - Alternatives in plant protection 4547-4548, 4561, 5691
  - Association of Austrian Plant Breeders 2280-2283, 2448-2449, 2469-2471, 2501, 2532-2535, 2576-2578, 2595, 2622, 2640, 2671, 2956, 2961, 2983, 2997, 3193, 3215, 3218, 3443, 3577, 12332-12333, 12463, 12477, 12479, 12483, 12493, 12529-12530, 12564, 12584-12585, 12601, 12615, 12625, 12630, 12648, 12778, 12869, 12897, 13058, 13412
  - Australian Society of Sugar Cane Technologists 5746, 6435, 6437, 6439, 6447, 6454-6455, 6627
  - Australian sorghum conference 1472-1475, 1480-1482, 1487, 1489, 2250, 2706
  - *Avena* working group 6857, 10196-10199
  - *Azadirachta indica,* breeding 8755
  - Bamboo in Asia and the Pacific 11116-11117, 11119-11122, 11128
  - Barley working group 12586-12589, 12591, 13408
  - Beltwide cotton conferences 9750
  - Biodiversity and wheat improvement 7689-7691, 7707-7708, 7714, 7717-7719, 7726-7728, 7741-7742, 7754, 7758-7761, 7772, 7776-7777, 7781, 7784, 7790-7791, 7795-7796, 7798, 7810, 7818, 7822-7823, 7825, 7827-7829, 8084, 8759
  - Biotechnology and farmer's rights 5715, 5723-5724, 5837, 6628
  - Biotechnology and genetic resistance in fruit crops 2305, 2309, 2387, 2392-2393, 3055, 3105, 3107-3109, 3111, 3122, 3132, 3140, 3234, 3420, 3450
  - Biotechnology in agriculture 118, 120, 154, 246, 279, 335, 356, 418, 427-430, 499, 786, 810, 853, 925, 948, 1076, 1389, 7545
  - *Botrytis* grey mould of chickpeas 10540-10543, 12911
  - breeding 2261
  - Breeding for stress tolerance in cool-season food legumes 6105, 6108, 6110-6111, 6113, 6115-6117, 6152-6154, 6194-6195, 6197, 6199-6200, 6207, 6210, 6630, 6648, 6657, 7072-7075, 9320
  - Brighton crop protection conference, weeds 12375-12376
  - Cereal quality III 7805, 12396, 12475-12476, 12534, 12606-12607, 12618, 13410
  - Coconut breeding and management 6368-6381, 6384-6408, 6626
  - Coconut genetic resources 3225-3233, 4515
- **Conferences** *cont.*
  - Conservation of biodiversity for sustainable development 1099-1101, 1106, 1177, 2257
  - Conservation of plant genes: DNA banking and *in vitro* biotechnology 8766-8768, 8777, 8790, 8796, 8865, 8881, 9616-9617, 9740, 9946
  - Corn and culture in the prehistoric New World 11263, 11436, 11456-11457, 11475-11488, 11490-11492, 12312
  - crops
    - biotechnology 2252
    - breeding 12309
    - genetics 12309
    - tissue culture 12309
  - Deccan Sugar Technologists' Association 876, 882, 885, 1075, 1999, 2019
  - Desertified grasslands — their biology and management 4911, 9183, 9186-9187, 9263, 9272, 10321, 10393, 11127
  - diseases 3446
  - Durability of disease resistance 6649-6656, 6658, 6770-6771, 6777-6786, 6789-6801, 6844-6845, 6849-6854, 6868-6870, 6902, 6906-6908, 6942, 6949, 6961, 6997-7007, 7022, 7103, 7119, 7134, 7165, 7167-7170, 7204, 7232, 7256, 7272, 7367-7368, 7385, 7447, 7484, 7519, 7571
  - Ecophysiology and genetics of trees 5519-5522, 5532-5533, 5540, 5544-5547, 5549, 5551, 5586-5587, 5591, 5596, 5598, 5607, 5698, 6543
  - Engineering plants against pests and pathogens 4549, 4551, 4596, 4821, 5037, 5191, 5201, 5464-5466, 5471-5473, 5475-5476, 5480, 5482, 5693
  - European Society for Agronomy 4023, 4046
  - First genetical congress of the Baltic states 2292, 2342, 2390, 2420, 2462-2463, 2474, 2506, 2579, 2588-2591, 2596-2597, 2611-2613, 2616, 2618, 2635, 2653, 2676-2679, 2781, 2785-2786, 2789-2790, 2793-2794, 2797, 2801, 2808, 2826, 2840-2841, 2843, 2878, 2902, 2950-2951, 3034, 3103, 3112-3113, 3124, 3128, 3134, 3136, 3141, 3143, 3147, 3149-3150, 3190, 3205, 3280, 3288, 3341, 3355-3356, 3358, 3363, 3375-3376, 3397, 3448
  - Focused plant improvement 2275, 2279, 2296-2299, 2301, 2338-2340, 2368, 2389, 2411, 2415, 2419, 2426, 2429, 2447, 2489, 2505, 2522, 2575, 2581, 2663, 2708, 2713, 2727, 2780, 2865, 2869, 2889, 3012, 3196, 3203-3204, 3254, 3260-3261, 3411, 3447, 3889, 8764
  - forest trees
    - breeding 8757
    - genetic resources 8757
    - molecular genetics 7567
    - seed production 7568
    - taxonomy 8756
  - Genes in ecology 9990-9993, 10035, 10050, 11130
  - Genetic aspects of plant mineral nutrition 2304, 2417, 2435, 2480, 2512-2513, 2519, 2820, 2868, 2907, 3445
  - genetics, physiology 11129
  - Genetics and breeding on capsicum and eggplant 662, 684, 686-688, 692-693, 695, 697-704, 706, 708-711
  - Groundnut — a global perspective 6412-6414, 6417, 6422-6423, 6624
  - Heterosis breeding in crop plants 1111, 1182-1183, 1201-1202, 1231-1232, 1390, 1407, 1532, 1689, 2083, 2255, 2373-2374
  - Heterosis breeding in crop plants, II 1288-1289, 1305-1306, 1391-1392, 1408-1410, 1425-1426, 1461, 1466, 1476, 1483, 1486, 1492, 1494-1496, 1498-1501, 1504, 1506-1507, 1533, 1538-1539, 1572-1573, 1739, 1741, 1746, 1749, 1752, 1758-1759, 1765,
- **Conferences** *cont.*
  - Heterosis breeding in crop plants, II *cont.* 1832, 1838, 1849, 1884, 1936-1937, 1942, 1949-1950, 1957, 1961, 1964, 1983, 2000, 2084, 2086, 2088-2089, 2234, 2256, 2459, 2517, 2745, 2939, 3216, 3318, 3324
  - Intellectual property rights 12353-12368, 13413
  - International *Beta* genetic resources network 2024-2029, 2031-2034, 2038-2039, 2258, 3267
  - International congress on photosynthesis 2356, 2430, 2601-2604, 3442
  - International Crop Science I 11139, 11144-11150, 11158-11160, 11162-11166, 11179, 11235, 11249, 11277, 11279-11281, 11293, 11351, 11380, 11414-11415, 11529, 11543, 12311, 12328-12330, 12348, 12350, 12352, 12371-12372, 12374, 12379-12380, 12452, 12464, 12474, 12545, 12558-12559, 12663, 12747, 12780, 12845, 13120
  - International Horticultural Congress 3120
  - International symposium on *in vitro* culture and horticultural breeding 3476, 3481, 3493, 3556-3559, 4005-4006, 4015-4016, 4020, 4070, 4073, 4106, 4120, 4126-4127, 4129, 4131, 4133, 4140-4141, 4144, 4148, 4151-4152, 4173, 4178, 4195-4196, 4288-4289, 4311, 4387, 4395-4396, 4425-4426, 4429, 4438, 4454, 4516, 5467, 5629, 9965
  - International symposium on the physiological basis of postharvest technologies 8286, 8296, 8373, 8383-8385, 8409, 8441-8442, 8753
  - International Triticeae Mapping Initiative 6728, 6746, 6748, 6773, 6813-6814, 6871, 7570, 7692, 7697-7703, 7705, 7720, 7725, 7731-7735, 7739, 7743, 7749, 7755, 7762, 7792-7793, 7811, 7838
  - International walnut meeting 8455-8457, 8459-8460, 8754, 9637-9648
  - IOBC/WPRS Working Group on Breeding for Resistance to Insects and Mites 9529
  - Joint conference of the EAPR Breeding Varietal Assessment Section and the EUCARPIA Potato Section 2943-2947, 2952, 2954-2955, 2957-2960, 2967-2971, 2973, 2975-2978, 2980, 2985, 2990-2994, 2998-3000, 3006-3011, 3013, 3114, 3444
  - *Lupinus*
    - breeding 2251, 5694
    - genetics 2251
  - Mechanisms of plant defense responses 5738-5743, 5776, 5787-5788, 5838, 5922, 5924-5926, 5986, 6167, 6209, 6239, 6268, 6276-6279, 6281, 6479, 6500, 6503-6507, 6629
  - *Medicago sativa*
    - breeding 1074
    - genetics 1074
  - molecular genetics 8752
  - Molecular plant-microbe interactions 1116-1117, 1147-1149, 1165-1169, 1467-1468, 1606, 1843-1844, 1946, 1959, 2262, 2319-2321, 2350, 2629, 2670, 2872, 2979, 3051, 3277, 3289-3290, 3293, 3410, 3435
  - Morphogenesis in plants: molecular approaches 9994, 10017, 10036, 10039-10040, 10045-10047, 10054, 11131
  - Mungbean yellow mosaic disease 5074, 5079-5081, 5689
  - National symposium on growth and differentiation in plants 205
  - National Workshop on Plant Genetic Resources 1085-1097, 1217, 1491, 1623, 2253
  - New crops 6890, 6957, 7013-7014, 7062, 7320, 7426-7429, 7431, 7569
  - New horizons in nitrogen fixation 3910, 3918-3920, 4361, 4514

Conferences *cont.*
  Okra genetic resources 1102, 1868-1883, 1886-1889, 2259, 3102
  Olive diseases 4244
  Participation of producers in breeding cassava varieties 5123-5129, 5695
  Physiology of varieties 5712-5713, 5727, 5750, 5831, 5835, 5844-5845, 5848-5849, 5874, 5882-5886, 5889, 5900, 5913, 5919, 5927, 6094, 6237, 6252, 6346, 6350, 6352, 6465-6466, 6487-6488, 6625
  Plant adaptation to environmental stress 7586-7588, 7655, 7713, 8758
  Plant molecular biology 2 5047, 5115, 5122, 5468-5469, 5674, 5692, 5756-5760, 5767, 5769, 5771, 5782, 5802, 5846, 5857-5858, 5907, 5914, 5930, 5957-5961, 5964-5966, 5970-5971, 5985, 5990, 6107, 6125, 6232, 6250, 6255, 6286, 6481, 6577, 6579-6581, 6585
  Pre-harvest sprouting in cereals 11318, 11321, 12310, 12508-12528, 12560, 12599-12600, 12637, 12646, 12649-12650, 12805
  Processing tomatoes 6261, 6264, 6266-6267, 6271-6273, 6623
  Pteridophytes 1032
  Quality protein maize 1438-1452, 2254
  Recent advances in horticultural science in the tropics 12856, 13023, 13098, 13106, 13110, 13358, 13378, 13409
  Regional groundnut workshop for southern Africa 857-859, 865-867, 1073, 3242-3243, 4247
  Reproductive biology and plant breeding 1084, 1107-1108, 1170, 1179, 1184-1185, 1207-1211, 1213-1215, 1218-1220, 1233, 1236, 1241, 1244, 1330, 1405-1406, 1414, 1418, 1420, 1803, 1812, 1940, 2174, 2196, 2261, 3217
  SABRAO international symposium 11140, 11152, 11236, 11268, 11285, 11385, 11431, 11470, 11497, 11526, 11544-11545, 11578, 11584, 11593-11594, 11598, 11600, 11606, 11893, 12004, 12010, 12020, 12022, 12066, 12108, 12142, 12153, 12196-12197, 12199, 12273-12274, 12289, 12378, 12462, 12705, 12736
  Science and cultivation of edible fungi 4488-4490, 4492-4499, 4501-4507, 4509-4510, 5682-5684, 8748
  Second international workshop on antinutritional factors in legume seeds 4959, 4973-4980, 5007-5014, 5049-5055, 5065, 5697, 6093
  Second symposium on raw materials 4577, 5342, 5373, 5696
  Selection and breeding of woody ornamentals 995
  self incompatibility 11129
  sexual reproduction 2261
  Solanum tuberosum
    breeding 13411
    diseases 13411
    genetics 13411
    pests 13411
  South African maize breeding symposium 1265, 1387, 1393-1395, 1398, 1429, 1435-1436, 1462, 1637, 1665, 1726, 1962-1963, 1991, 2007
  Third European seminar: *Fusarium* 2437-2438, 2537-2543, 2656-2659, 2664-2666, 2695, 2883, 2915, 2932, 3403, 3449, 4451
  Towards the rational use of high salinity tolerant plants 1113, 1178, 1242, 1253, 1255, 1594, 1648, 1815, 1841-1842, 2040, 2260, 3776
  Twenty-third International Horticultural Congress 11955, 11958, 11966-11967, 11971, 11973-11977, 11979-11980, 11982-11983, 11985, 12308
  Vegetable virus research, ISHS 5167, 5190, 5214, 8315-8316, 8760

β-Conglycinin
  Arabidopsis thaliana, genetic transformation 8147
  Glycine max
    gene expression 6123, 8147, 9335
    genetic engineering 6123, 9335
  Nicotiana tabacum
    gene expression 6123
    genetic transformation 6123, 9335
Conifers
  gene expression
    chlorophyll *a*/*b* binding protein 7475
    ribulose-bisphosphate carboxylase 7475
  gene mapping 12211
  genetic resources 12205
  gibberellins 148
  growth regulators 148
  in vitro culture 3353
  monoterpenes 9808
  pollen 7474
  restriction fragment length polymorphism 12211
  Scolytidae 9808
Contarinia schulzi, *Helianthus annuus* 9682
Contarinia sorghicola
  Sorghum bicolor 361-362, 1489, 2713, 4872, 10312, 10315
    germplasm releases 3780
Controlling elements (*see also* Transposable elements)
Convallaria mujalis, polymorphism, isoenzymes 4447
Convicine
  grain legumes 4976
  Vicia faba 4978
    genetics 5014
    induced mutations 5014
Copper
  Glycine max 8160
  Malus pumila 7252
  Mimulus guttatus 1011, 8692
    heritability 4432
    natural selection 4432
  Secale cereale, gene location 12477
  Triticeae 12558
  Triticum aestivum 10122, 12558
Coprinus bilanatus
  carboxin 8748
  fungicides 8748
  gene expression, reproduction 4500
  genetic transformation, reproduction 4500
  induced mutations, enzymes 4507
  molecular genetics 8748
Coprinus cinereus
  carboxin 8748
  cytology 1065
  fungicides 8748
  gene expression, reproduction 4500
  genetic engineering, reproduction 4500
  genetic transformation 1065
  meiosis 1065
  mitochondrial genetics 1065
  molecular genetics 8748
  mutations, meiosis 2245
Coprinus psychromorbidus, *Medicago sativa* 10420
Coproporphyrinogen oxidase
  Glycine max
    gene expression 507
    molecular genetics 507
Corchorus, *Macrophomina phaseolina* 3335
Corchorus capsularis
  genetics, colour 2103
  multivariate analysis
    quality 2102
    yield components 2102
  quality 10984
  tissue culture 958, 4342, 5805
  yield correlations 12157
Corchorus olitorius
  combining ability, yield components 957
  dimethyl sulfoxide 6526
  genetic resources 7406
  growth period 10983
  induced mutations, height 6526
  multivariate analysis
    quality 2102
    yield components 2102
  mutagens 6526
  mutations, morphology 957

Corchorus olitorius *cont.*
  stability, yield components 12169
  yield components 10983
Corcyra cephalonica, *Triticum aestivum* 10153
Coreopsis integrifolia, genetic variation, isoenzymes 13352
Coreopsis pulchra, genetic variation, isoenzymes 13352
Coreopsis rosea, genetic variation, isoenzymes 13352
Coriandrum sativum
  chromosome morphology 12296
  chromosome pairing 12296
  gamma radiation 6607
  gene expression, palmitoyl-acyl carrier protein desaturase 8745
  induced mutations 6607
  tissue culture 1057
  yield correlations 11107
Cork, *Sorghum bicolor,* induced mutations 6931
Cornus
  chloroplast genetics
    ribulose-bisphosphate carboxylase 3350
    taxonomy 3350
  taxonomy 982
Cornus florida
  varieties
    Ozark Spring 4389
    Spring Grove 4389
Cornus occidentalis, varieties, Stinson Beach 4389
Corolla
  Dendranthema, induced mutations 9835
  Lantana depressa, induced mutations 9835
  Rosa, induced mutations 9835
  Vigna unguiculata 9435
  Vigna vexillata 9435
Coronatine
  Arabidopsis thaliana
    gene expression 10030
    induced mutations 10030
  Lycopersicon esculentum 10030
Coronilla
  gamma radiation 494
  induced mutations, 3-nitropropionic acid 494
  nutritive value 494
Corozo (*see Elaeis)*
Corticium (*see also Thanatephorus)*
Corticium rolfsii
  Arachis hypogaea 3246, 8506
  Cicer 1754
  Cicer arietinum 1755
Coryanthes* × *Stanhopea, intergeneric hybridization 9891
Corydalis, chromosome morphology 2221
Corydalis cava
  abnormal development 11066
  flowers 11066
Corydalis marschalliana
  abnormal development 11066
  flowers 11066
Corydalis solida
  abnormal development 11066
  flowers 11066
Corylus
  flowering 4198
  fruits 7316
  oils 7316
  pollination 4198
  proteins 7316
  quality 7316
  varieties 4198, 10834
Corylus avellana
  compatibility 9653
  pollination 9653
  quality 1925
  storage, pollen 137
  variety trials 7315
Coryneum populinum, *Populus, in vitro* selection 5547
Cotoneaster
  Erwinia amylovora 1069
  taxonomy 12239
Cotoneaster hylmoei
  nomenclature 11046
  taxonomy 11046

- **4-Coumarate:CoA ligase**
  - *Petroselinum crispum,* gene expression 8744, 11108
  - *Glycine max*
    - gene expression 525
    - molecular genetics 525
- **Coumarins,** *Prunus,* genetics 11956
- ***Cowania mexicana,*** tissue culture 8059
- ***Cowania subintegra,*** tissue culture 8059
- **Cowpea chlorotic mottle bromovirus**
  - *Nicotiana* 10943
  - *Nicotiana benthamiana,* genetic transformation 6501
  - *Nicotiana tabacum* 10943
- **Cowpea mosaic comovirus,** *Vigna unguiculata,* gene expression 2938
- **Cowpea severe mosaic comovirus,** *Vigna unguiculata* 5070
- ***Crambe abyssinica***
  - genotype environment interaction
    - erucic acid 8508
    - quality 8508
- **Crassulaceae**
  - chloroplast genetics 8728
  - evolution 8728
  - nucleotide sequences 8728
- ***Crataegus***
  - gamma radiation 3129
  - gene banks 5242
  - genetic resources 5242
  - induced mutations 3129
  - rootstocks 7263
  - varieties, Yizhuhong 7263
- ***Crataegus monogyna,*** provenance trials 13055
- ***Crataegus pinnatifida***
  - gamma radiation 10741
  - induced mutations
    - fruits 10741
    - ornamental value 10741
- ***Crataegus pubescens,*** yield components 5243
- ***Craterostigma plantagineum***
  - gene expression
    - abscisic acid 8669
    - desiccation 6577, 8669
    - drought resistance 12621
  - genetic engineering, drought resistance 916
  - molecular genetics
    - desiccation 6577, 8674
    - drought resistance 12621
- ***Crepis capillaris***
  - aneuploidy 105
  - chromosome pairing 105
  - meiosis 105
- ***Criconemella xenoplax,*** *Prunus persica,* heritability 4145
- ***Crithopsis,*** taxonomy 7039
- ***Crocus biflorus,*** pollen 8705
- ***Crocus sativus***
  - heritability, yield components 11106
  - somaclonal variation, chromosome number 9929
  - tissue culture 9929
- ***Cronartium fusiforme***
  - *Pinus elliottii* 8751
    - gene mapping 8632
    - random amplified polymorphic DNA 8632
    - reports 4512
  - *Pinus taeda* 8751
    - combining ability 4369
    - heritability 4369
- ***Cronartium ribicola***
  - *Pinus lambertiana* 11027
  - *Pinus monticola* 3361
- **Crop density**
  - *Arachis hypogaea* 7360
  - *Beta vulgaris,* sugarbeet 5429
  - *Brassica oleracea,* Brussels sprouts 5153
  - *Cajanus cajan* 6214
  - *Cicer arietinum* 10539
  - *Dactylis glomerata* 7023
  - *Glycine max* 7092
  - *Helianthus annuus* 5390-5391, 7341, 7348, 10863
  - *Hordeum vulgare* 1367, 2621, 6840, 11388, 12620
  - *Lens culinaris* 11769
  - *Lolium perenne* 4918
- **Crop density** *cont.*
  - *Morus* 785
  - *Nicotiana alata* 926
  - *Oryza sativa* 437
  - *Phaseolus vulgaris* 2900, 5034
  - *Pisum sativum* 7117
  - *Salvia pratensis* 8741
  - *Sesamum indicum* 10892
  - *Solanum tuberosum* 5104
  - *Sorghum bicolor* 4869, 6941
  - *Triticum aestivum* 2514, 12554
  - *Zea mays* 341, 1410, 3770, 6897, 9109, 11468
    - yield components 10285
- **Crop mixtures** 5714
  - *Arachis hypogaea, Zea mays* 4261, 8503
  - *Avena sativa* 11288
  - *Cajanus cajan* 578
    - *Pennisetum glaucum* 3977, 6213
    - *Sorghum bicolor* 3977, 6213, 7139
  - *Cicer arietinum, Brassica juncea* 8208
  - *Festuca arundinacea* 11644
  - *Festuca pratensis* 11638, 11644
  - *Glycine max*
    - *Cajanus cajan* 500
    - combining ability 4993
  - herbage crops 1070
  - *Hordeum vulgare* 11288
  - *Lotus corniculatus* 1669
  - *Lotus uliginosus* 1669
  - *Medicago sativa, Festuca arundinacea* 2832
  - *Oryza sativa* 578
  - *Phaseolus vulgaris, Zea mays* 2891
  - *Sesamum indicum, Oryza sativa* 3252
  - *Trifolium repens* 9302, 11644
    - *Cynodon dactylon* 6088, 8117
    - *Lolium multiflorum* 6089
    - *Lolium perenne* 6089
  - *Triticum aestivum*
    - *Hordeum vulgare* 5886
    - *Populus* 1321
    - *Sinapis alba* 5886
  - *Vigna unguiculata, Pennisetum glaucum* 9431
  - *Zea mays, Cajanus cajan* 342
- **Crops**
  - abscisic acid 9960
  - archaeology 11487
  - artificial selection, diseases 6648
  - biotechnology
    - conferences 2252
    - reviews 11172
  - breeders' rights 4545, 5718
  - breeding 2, 11, 1225, 2415, 6635, 11139, 12332, 12584, 13421
    - books 9949, 11136
    - conferences 12309
    - history 3, 11267
    - physiology 2275
    - reports 1070, 5686, 6621
    - reviews 11172
    - salinity 2260
  - chromatin 6709
  - climate 12371
  - *Colletotrichum* 2310
  - computer programming 6767
  - crossing over 12438
  - diseases 2291, 2306, 4550, 4552, 6655, 6657, 7590-7592, 10057
  - DNA 1126
  - domestication 11139
    - books 2271
  - drought resistance 8917, 9960-9961
  - evolution 11240
    - bibliographies 7676
  - fungi 4550
  - gene banks 2, 1103, 2289, 4539, 9952, 11153
  - gene expression
    - *Bacillus thuringiensis* 9972
    - chitin 1114
    - lectins 1114
    - pathogens 1114
    - protein kinase 44
  - gene mapping 4573
    - pathogens 3067
  - genetic distance 11489
  - genetic engineering
    - diseases 9963
    - herbicides 1119, 12376
- **Crops** *cont.*
  - genetic engineering *cont.*
    - hybrid seed production 1233
    - male sterility 1233
    - tomato spotted wilt tospovirus 9967
    - viruses 8789, 9970
  - genetic markers 2343
    - diseases 3480
  - genetic resources 2, 1217, 1226-1227, 2288-2289, 3469, 6721, 7685, 8773, 9952, 9954, 10044, 11144, 11150, 11153, 12344
    - reports 134
  - genetic transformation 1145, 1150
    - *Agrobacterium rhizogenes* 1229
    - *Bacillus thuringiensis* 9971-9972
    - diseases 9963
    - glufosinate acetyltransferase 7688
    - insects 5746
    - peptides 8802
    - proteins 8802
    - reviews 40, 2349
    - tomato spotted wilt tospovirus 9967
    - viruses 9968-9970
  - genetics 2411
    - conferences 12309
    - diseases 2311
    - nutrients 7687
    - pathogens 3067
    - photosynthesis 1239
  - genotype environment interaction, roots 149
  - germplasm releases 5828
  - growth regulators 9960
  - herbicides 7595-7596
    - reviews 11172
  - history 6717
  - hybrid seed production 1231, 2374
  - hybrid varieties 2374
    - reviews 1390
  - *in vitro* culture 3560, 10044
  - inbreeding, reviews 1390
  - induced mutations 1228, 5832
    - diseases 6656
    - history 2375
  - insects 37, 1243, 2315, 3483, 10057
    - bibliographies 1118
    - books 13416
  - intergeneric hybridization 1239
  - interspecific hybridization 1239
  - isoenzymes 2343
  - molecular genetics
    - ACC synthase 661
    - amino acids 10056
    - diseases 9962
    - heat shock proteins 6646
    - herbicides 9962
    - histones 9982
    - nitrite reductase 5836
    - nutritive value 10056
    - phenylalanine ammonia-lyase 5734
  - mutations, roots 149
  - mycorrhizas 10055
  - nucleotide sequences
    - histones 9982
    - taxonomy 11489
  - nutrients 2417
  - nutritive value 151
  - oligosaccharides 7071
  - pathogens 1115
  - pests 7590, 12373
  - photosynthesis 9961, 12464
  - plant introduction 138, 2288, 8863, 11487
  - polyploidy 11240
    - photosynthesis 3542
  - proline 8917
  - proteins 2888
  - protoplasts 120
  - *Pseudomonas solanacearum* 7593
  - random amplified polymorphic DNA 2343
  - recombination 12438
  - restriction fragment length polymorphism 2343
    - taxonomy 11489
  - rooting capacity 6032
  - roots 6032
  - salinity 1113, 9959
    - reviews 7589
  - seed production 6635

Crops *cont.*
- seed testing 2888
- senescence 6723
- sexual reproduction, reviews 11246
- statistics 6767
- storage, seeds 4539
- stress 6767, 9320, 12371
- taxonomy 6724
  - bibliographies 7676
- temperature 12371
- tissue culture 1217, 1220, 6709, 10045
  - conferences 12309
- uracil-DNA glycosylase 3565
- variety classification 2888, 5711, 11271
- variety trials 5831
  - reports 5688
- vegetative reproduction, reviews 11246
- viruses
  - books 3451
  - reviews 2314
- weeds 7597
- varieties 140-141, 1070, 1228, 4545, 5712, 5718, 5832, 8864
  - history 4647

Crossandra infundibuliformis
- heritability, yield components 7504
- induced mutations, yield components 2164, 7504
- yield correlations 7504

Crossing over
- crops 12438
- interference 4627
- *Lycopersicon esculentum* 1839, 4060
- mathematics 2366
- *Secale cereale* 1384
- *Triticum aestivum* 6746
- *Zea mays* 2678-2679, 3735-3736
  - colour 9041

Crotalaria, chromosome number 962

Crotalaria juncea
- ethyl methanesulfonate 961
- gamma radiation 961
- genetic resources 7406
- induced mutations
  - chromosome number 961
  - chromosome pairing 961
- methyl methanesulfonate 961
- mutagens 961

Crotalaria venusta, taxonomy 7430

Cruciferae
- *Alternaria brassicae* 8465
- chloroplast genetics, taxonomy 9670
- cytoplasmic male sterility, reviews 11864
- gene expression, seeds 1812
- male sterility, reviews 11864
- pollen competition 4635
- storage, seeds 1819

Cruciferin
- *Brassica napus*
  - rape
    - gene expression 5352, 12045-12046
    - nucleotide sequences 12046

Cryopreservation 1218-1219, 1330, 8771, 12450
- *Abies nordmanniana* 2147
- *Asparagus officinalis* 6259, 6294, 12983
- *Astronium urundeuva* 12285
- *Brassica napus,* rape 9668
- *Camellia sinensis* 3274, 6464
- *Cichorium intybus* 9531
- *Citrus* 13093
- *Citrus sinensis* 803
- *Eucalyptus gunnii,* tissue culture 6534
- *Eutrema wasabi* 9534
- fodder legumes 12823
- *Fragaria ananassa* 765
- *Grevillea scapigera* 9848
- *Lonicera caerulea* 6294
- *Malus pumila* 6294, 11950
- *Musa* 9616-9617
- *Oryza sativa* 6046
  - tissue culture 10377
- *Panax pseudoginseng,* pollen 5667
- *Panax quinquefolius,* pollen 5667
- *Phoenix dactylifera* 6328
- *Picea abies* 2129, 11028-11029
- *Picea engelmannii* 11030
- *Picea glauca* 11030
- *Pinus nigra* 2129
- *Pinus pinea* 2129

Cryopreservation *cont.*
- *Pinus strobus* 2129
- *Pinus sylvestris* 2129
- *Pinus uncinata* 2129
- *Porphyra yezoensis* 5685
- *Prunus avium* 6294
- *Pyrus communis* 740, 6294
- *Pyrus pyrifolia* 6294
- *Pyrus ussuriensis* 6294
- *Quercus faginea* 973
- *Rubus fruticosus* 6307
- *Trifolium repens* 3925
- *Vaccinium corymbosum* 6294

Cryptarrhena, taxonomy 8719

Cryptomeria japonica
- development 9830
- genetic variation, isoenzymes 5609, 7496
- tissue culture 13327
- wood properties 9833

Cryptosporella (*see also Phomopsis)*

Cucumber green mottle mosaic tobamovirus, *Cucumis melo,* artificial selection 11909

Cucumber mosaic cucumovirus
- *Capsicum annuum* 3086-3087, 8362
- *Capsicum chinense* 8362
- *Cucumis melo* 4103, 8369, 11910
  - gene flow 13033
  - genetic transformation 13032-13033
- *Cucumis sativus* 5205
  - genetic transformation 724
- *Cucurbita* 5205
  - combining ability 13039
- *Cucurbita pepo* 4103
- *Lycopersicon* 5189
- *Nicotiana benthamiana*
  - gene expression 4480
  - genetic transformation 4480, 5475
- *Nicotiana glutinosa* 10942
- *Nicotiana tabacum* 10942
  - gene expression 4480, 10945, 10948, 10951, 13235
  - genetic transformation 3306, 4480, 5475, 10945, 10948, 10951, 13235-13236
- *Olea europaea* 4246
- *Phytolacca americana*
  - gene expression 4480
  - genetic engineering 4480
- *Solanum tuberosum*
  - gene expression 4480
  - genetic transformation 4480
- *Vigna unguiculata* 8221

Cucumis
- genetic resources 5830, 11902
- genetics
  - fruits 1866
  - leaves 1866
- taxonomy 2270

Cucumis anguria, interspecific hybridization 1866

Cucumis longipes, interspecific hybridization 1866

Cucumis melo
- *Acremonium* 11905
- *Aphis gossypii* 1858, 5209
- artificial selection
  - cucumber green mottle mosaic tobamovirus 11909
  - watermelon mosaic 2 potyvirus 13031
- *Bemisia tabaci* 11911
- breeding 1856, 6247
  - reports 1071
- combining ability, *Pseudoperonospora cubensis* 13029
- cucumber mosaic cucumovirus 4103, 8369, 11910
- *Didymella bryoniae* 8367
- embryo culture 714
- epistasis, *Pseudoperonospora cubensis* 13030
- flowers 7672
- fruits 715
- gamma radiation 4105, 5208
- gene expression, zucchini yellow mosaic potyvirus 3090
- gene flow, cucumber mosaic cucumovirus 13033
- genetic resources 6247, 11901
- genetic transformation 4104

Cucumis melo *cont.*
- genetic transformation *cont.*
  - cucumber mosaic cucumovirus 13032-13033
  - zucchini yellow mosaic potyvirus 3090
- genetic variance, *Pseudoperonospora cubensis* 13029-13030
- genetics
  - *Fusarium oxysporum* 11908
  - *Pseudoperonospora cubensis* 11907
  - regenerative ability 11904
  - watermelon mosaic 2 potyvirus 13031
- haploidy 4105, 5208
- heritability, *Pseudoperonospora cubensis* 13029
- *in vitro* selection, *Murothecium roridum* 8366
- morphology 715
- papaya ringspot potyvirus 11910
- papaya ringspot (type W) potyvirus 8368
- parthenocarpy 4105
- *Phytophthora melonis* 716
- pollen 4105
- polyploidy 714, 4106
- proteins 3089
- protoplasts 10698
- *Pseudomonas syringae* 716
- *Pseudoperonospora cubensis* 3089
- salinity 9561
- sex 7672
- somaclonal variation
  - *Meloidogyne* 1857
  - polyploidy 1857
- *Sphaerotheca fuliginea* 3088, 11906
- tissue culture 4106-4107, 5207-5208, 8365
- variety trials 5206
- watermelon mosaic 2 potyvirus 1858, 11910
- varieties 1856
  - Guangzhou Mi Gua 10697
  - Gylan 8364
  - Long Tian-2 9560
  - Tasi Mi Nai Gua 10697

Cucumis metuliferus, *Meloidogyne* 3101

Cucumis sativus
- artificial selection
  - *Cladosporium cucumerinum* 723
  - *Pseudomonas lachrymans* 723
  - *Pseudoperonospora cubensis* 723
  - sex 10708
- breeders' rights 6289
- breeding 3097
  - history 11926
- chitinase 5466
- chloroplast genetics, aminolevulinic acid 9563
- cold resistance 721-722, 1863, 8373
- combining ability, germination 11934
- cucumber mosaic cucumovirus 5205
- development 1862
- *Didymella bryoniae* 9565, 10711, 11938
- DNA 3098
- *Erysiphe cichoracearum* 3100
- fatty acids 721
- flowers 11929
- *Frankliniella occidentalis* 1864
- fruits 7240, 8373, 11939
- *Fusarium oxysporum* 3100, 11937
- *Fusarium solani* 13028
- gamma radiation 10706
- gene expression 4113, 11270
  - aminolevulinic acid 9563
  - carbohydrates 10709
  - cell culture 10709
  - chitinase 3283, 13042
  - *Colletotrichum orbiculare* 5464
  - heat shock proteins 11927
  - hydroxypyruvate reductase 4112
  - isocitrate lyase 10709
  - malate dehydrogenase 10709
  - malate synthase 10709
- genetic engineering 5466
  - ascorbate oxidase 10705
  - chitinase 3283
- genetic resources 6247, 11901
- genetic transformation 13040
  - ascorbate oxidase 10705
  - cucumber mosaic cucumovirus 724

***Cucumis sativus** cont.*
- genetics
  - catalogues 11928
  - *Cladosporium cucumerinum* 9564
  - colour 3099
  - determinate and indeterminate habit 8372
  - fruits 3099
  - *Fusarium oxysporum* 9564
  - leaves 11932
  - roots 8372
- growth period 10710
- haploidy 10706
- heat resistance 8374
- herbicides 1862
- heritability, yield components 11936
- heterosis, germination 11934
- humidity 7241
- hybrid varieties 720
- interspecific hybridization 3097
- leaves 11931
- linkage
  - *Cladosporium cucumerinum* 9564
  - fruits 11933
  - *Fusarium oxysporum* 9564
- lipids 721-722
- *Meloidogyne* 3101, 10710
- mixoploidy 3098
- molecular genetics, heat shock proteins 11927
- mutations
  - leaves 11932
  - phytochrome 11935
  - stems 11935
- nucleotide sequences
  - ascorbate oxidase 10705
  - ferrochelatase 11381
  - heat shock proteins 11927
  - ribulose-bisphosphate carboxylase activase 7239
- parthenocarpy 10707
- photosynthesis 11931
- plant disorders 7241, 11939
- plant embryos 10706
- pollination 11930
- *Pseudoperonospora cubensis* 3100, 5218
- quality 8373
- roots 722, 1862
- rootstocks 722, 6247, 7240
- seasonal growth 7240
- sex 11929
- simazine 1862
- *Sphaerotheca fuliginea* 5216-5217
- squash mosaic comovirus 5205
- temperature 7241
- *Tetranychus urticae* 1864
- ultraviolet radiation 8374
- variety classification 6289
- variety trials 5215
- watermelon mosaic 2 potyvirus 5205
- wide hybridization 723
- yield correlations 7240, 13041
- zucchini yellow mosaic potyvirus 5205
- varieties 11267
  - Ai Sheng-1 719
  - Zao Feng-2 720

***Cucumis* (×) *Cucurbita*,** protoplast fusion 712

Cucurbita
- *Anasa tristis* 3095
- combining ability
  - cucumber mosaic cucumovirus 13039
  - *Sphaerotheca fuliginea* 13039
- cucumber mosaic cucumovirus 5205
- embryo culture 13038
- gene expression
  - chaperonins 1860
  - (*S*)-2-hydroxy-acid oxidase 9562
- genetic resources 11902
- molecular genetics
  - ACC synthase 661
  - albumins 3093
  - chaperonins 1860
- nucleotide sequences, (*S*)-2-hydroxy-acid oxidase 9562
- plant disorders 11925
- squash mosaic comovirus 5205
- viruses 5214
- watermelon mosaic 2 potyvirus 5205
- zucchini yellow mosaic potyvirus 5205
- varieties, Star-7001 11916

***Cucurbita argyrosperma*,** leaves 6288

Cucurbita ficifolia
- cold resistance 722
- interspecific hybridization 13038
- lipids 722
- roots 722
- rootstocks 722

***Cucurbita foetidissima*,** interspecific hybridization 13038

Cucurbita maxima
- combining ability, yield components 4110
- *Fusarium solani* 13028
- genetic resources 10701
- heterosis, yield components 4110
- interspecific hybridization 13038
- variety trials 10701
- varieties, Alice 718

Cucurbita moschata
- artificial selection, papaya ringspot potyvirus 11924
- *Erysiphe cichoracearum* 11922
- *Fusarium solani* 13028
- genetic resources 10701
- genetics
  - chlorophyll 11920
  - colour 11921
  - fruits 11921
  - watermelon mosaic 2 potyvirus 4111
  - zucchini yellow mosaic potyvirus 4111
- *Pseudoperonospora cubensis* 1861, 11922
- *Sphaerotheca fuliginea* 11922
- variety trials 10701

Cucurbita pepo
- *Bemisia tabaci* 3096
- chloroplast genetics, heat shock 5212
- chloroplasts 11919
- cucumber mosaic cucumovirus 4103
- flowering 10704
- fruits 11919
- *Fusarium solani* 13028
- gene expression
  - ACC synthase 6286
  - heat shock 5212
- genetic resources 10701
- genetics
  - colour 11923
  - fruits 11923
- growth period 10704
- heat sums 10704
- molecular genetics, ACC synthase 6286
- mutations
  - colour 11923
  - fruits 11923
- nitrogen 6287
- nucleotide sequences, phloem 5213
- nutrients 6287
- parthenocarpy 11917
- plant disorders 11925
- planting date 10703
- pollen 6287
- pollination 10702
- *Pseudoperonospora cubensis* 1861
- sex 10703-10704
- sexual reproduction 10702
- *Sphaerotheca fuliginea* 3094
- variety trials 10701, 11915
- watermelon mosaic 2 potyvirus 11923
- yield correlations 11918
- varieties
  - Luo Ren Jin Gua 717
  - Orangetti 5211

***Cucurbita* (×) *Cucumis*,** protoplast fusion 712

Cucurbitaceae
- *Bemisia tabaci* 11903
- breeding 5204
- genetic resources 5203, 11901
- genetics 5204
- tissue culture 713

Cuminum
- chromosome number 2217
- DNA 2217

Cuminum cyminum
- multivariate analysis 1056
- yield components 1056

Cunninghamia lanceolata
- genetic variation, isoenzymes 13324
- population genetics 13324

Cuphea
- artificial selection
  - decanoic acid 6433
  - octanoic acid 6433
- chromosome pairing 6433
- genetic resources 6431
- genetics
  - decanoic acid 6433
  - octanoic acid 6433

Cuphea lanceolata
- artificial selection
  - decanoic acid 6433
  - octanoic acid 6433
- chromosome pairing 6433
- genetics
  - decanoic acid 6433
  - octanoic acid 6433
- interspecific hybridization 6433

Cuphea viscosissima
- artificial selection
  - decanoic acid 6433
  - octanoic acid 6433
- chromosome pairing 6433
- genetics
  - decanoic acid 6433
  - octanoic acid 6433
- interspecific hybridization 6433

Cupressaceae
- chloroplast genetics
  - evolution 5610
  - ribulose-bisphosphate carboxylase 5610

Cupressus
- artificial selection, *Seiridium cardinale* 7497
- breeding 7497

***Cupressus sempervirens*,** genetics, isoenzymes 2150

***Curcuma amada*,** tissue culture 7549

***Curcuma aromatica*,** heterosis, yield components 2231

***Curcuma longa*,** heritability, yield components 6609

Curvularia (*see also Cochliobolus*)
- *Zea mays* 7962

Cutting
- *Festuca arundinacea* 11643, 11645
- *Festuca pratensis* 11643
- *Festuca rubra* 11643
- *Hibiscus cannabinus* 7431
- *Holcus lanatus* 10412
- *Hordeum vulgare* 4767
- *Lolium perenne* 11630, 12788
- *Phalaris aquatica* 10413
- *Saccharum officinarum* 6445
- *Trifolium pratense* 9300, 11675

Cuttings, *Macadamia* 12026

Cyamopsis tetragonoloba
- electromagnetic radiation 3991
- gamma radiation 3991
- genetic variance, quality 595
- genotype environment interaction, yields 1773
- induced mutations, chlorophyll 3991
- *Leveillula taurica* 596
- mutagens 3991
- sodium azide 3991
- stability, yields 1773
- *Xanthomonas campestris* 596, 2941, 12926

Cyanogens
- *Dendranthema morifolium* 9875
- *Grevillea banksii* 2168
- *Grevillea bipinnatifida* 2168
- *Manihot esculenta* 7180
- *Sorghum*, combining ability 11526
- *Trifolium repens*, population genetics 9297

Cycas revoluta
- centromeres 4384
- nucleolus organizer 4384

***Cycas taitungensis*,** taxonomy 11035

***Cycas taiwaniana*,** taxonomy 11035

Cyclamen
- flowers 5652
- quality 5652

***Cyclamen persicum*,** anther culture 1023

***Cyclobalanopsis bapouensis*,** taxonomy 981

***Cyclobalanopsis dulongensis*,** taxonomy 981

***Cyclobalanopsis nengpulaensis*,** taxonomy 981

- **Cyclophilin**
  - *Arabidopsis thaliana,* molecular genetics 12403
  - *Vicia faba*
    - gene expression 10500
    - nucleotide sequences 10500
- ***Cyclopogon dressleri,*** taxonomy 11093
- ***Cydia pomonella, Juglans regia*** 8458
- ***Cydonia*** *(see also Chaenomeles)*
- ***Cydonia oblonga***
  - *Agrobacterium tumefaciens* 5241
  - *Epitrimerus pyri* 5239
  - rootstocks 5241
  - tissue culture 4131, 6297
- ***Cydonia × Pyrus***
  - genetic transformation 3108
  - intergeneric hybridization 3108
  - tissue culture 3108
- ***Cylindrocarpon*** *(see Nectria)*
- ***Cylindrocladium clavatum,*** *Eucalyptus* 10995
- ***Cylindrocladium scoparium***
  - *Erica gracilis* 1069
  - *Eucalyptus* 10995
- ***Cylindrosporium*** *(see also Blumeriella; Pyrenopeziza)*
- ***Cymbidium cyperifolium,*** chromosome number 8711
- ***Cymbidium kinabaluense,*** taxonomy 2212
- ***Cymbidium lancifolium,*** tissue culture 12275
- **Cymbidium ringspot tombusvirus,** *Nicotiana benthamiana,* genetic transformation 5480, 8569
- ***Cynara cardunculus***
  - gene expression
    - cyprosin 8320
    - proteinases 8320
  - nucleotide sequences
    - cyprosin 8320
    - proteinases 8320
  - tissue culture 9533
- ***Cynara scolymus***
  - anther culture 5166
  - breeding, reports 1071
  - flavonoids 12991
  - growth period 11874
  - ovule culture 5166
  - phenolic compounds 12991
  - quality 7207
  - somaclonal variation
    - leaves 12990
    - morphology 12990
  - variety trials 11874
- ***Cynodon***
  - varieties
    - Midfield 9860
    - Midlawn 9859
    - Tifton-85 1636
- ***Cynodon dactylon***
  - artificial selection, cold resistance 8083
  - fire effects 4929
  - germplasm releases
    - *Cochliobolus cynodontis* 9262
    - *Spodoptera frugiperda* 9262
  - interspecific hybridization 9859-9860
  - nitrogen 3891
  - nutrients 3891
  - *Trifolium repens,* crop mixtures 6088, 8117
  - varieties
    - Sonesta 1635
    - Windsor Green 2804
- ***Cynodon nlemfuensis***
  - nitrogen 3891
  - nutrients 3891
- ***Cynodon transvaalensis,*** interspecific hybridization 9859-9860
- ***Cynosurus cristatus***
  - nitrogen 7019
  - nutrients 7019
  - stress 7019
- **Cypermethrin**
  - *Hordeum vulgare* 10037
  - *Vicia faba* 10037
- ***Cyphanthera albicans,*** alkaloids 1050
- ***Cyphanthera myosotidea,*** alkaloids 1050
- ***Cyphanthera × Duboisia***
  - alkaloids 1050
  - intergeneric hybridization 1050
- ***Cyphanthera × Grammosolen***
  - alkaloids 1050
  - intergeneric hybridization 1050
- ***Cyphomandra,*** chloroplast genetics, taxonomy 3568
- ***Cyphomandra betacea,*** tissue culture 4196, 10825
- ***Cypripedium***
  - evolution 9890
  - genetic variation, isoenzymes 9890
  - taxonomy 9890
- ***Cypripedium calceolus***
  - fragrance 8715
  - polymorphism, isoenzymes 4455
- ***Cypripedium fasciculatum***
  - cell division 13377
  - pollen 13377
- ***Cypripedium japonicum,*** chromosome banding 12272
- ***Cypripedium segawai,*** chromosome banding 12272
- **Cyprosin**
  - *Cynara cardunculus*
    - gene expression 8320
    - nucleotide sequences 8320
- ***Cyrtococcum capitis-york,*** taxonomy 2814
- ***Cyrtopodium longibulbosum,*** taxonomy 8716
- **Cystatin**
  - *Zea mays*
    - gene expression 313
    - nucleotide sequences 313
- **Cysteine**
  - *Hordeum vulgare* 2590
  - *Vicia faba* 106
- **Cysteine endopeptidase**
  - *Zea mays*
    - gene expression 11440
    - nucleotide sequences 11440
- **Cysteine proteinase**
  - *Actinidia deliciosa*
    - gene expression 1909
    - genetic engineering 1909
    - nucleotide sequences 1909
  - *Arabidopsis thaliana*
    - gene expression 7660
    - nucleotide sequences 7660
  - *Cicer arietinum*
    - gene expression 9415
    - nucleotide sequences 9415
  - *Petunia hybrida*
    - gene expression 1909
    - genetic transformation 1909
  - *Ricinus communis*
    - gene expression 4266
    - nucleotide sequences 4266
  - *Solanum tuberosum,* molecular genetics 8247
- **Cysteine synthase**
  - *Citrullus lanatus* 10699
  - *Spinacia oleracea,* molecular genetics 647
  - *Triticum aestivum*
    - gene expression 2458
    - genetic engineering 2458
- **Cysteine synthase*O*-acetylserine (thiol) lyase**
  - *Nicotiana tabacum*
    - gene expression 2458
    - genetic transformation 2458
- **Cytochrome *f*,** *Arabidopsis thaliana,* induced mutations 4594
- **Cytochrome monooxygenase**
  - *Zea mays*
    - gene expression 10240
    - nucleotide sequences 10240
- **Cytochrome-*c* oxidase**
  - Leguminosae, mitochondrial genetics 9977
  - *Zea mays*
    - gene expression 314, 9148
    - mitochondrial genetics 314
- **Cytochrome P-450**
  - *Arabidopsis thaliana,* genetic transformation 8733
  - *Catharanthus roseus*
    - gene expression 8733
    - genetic engineering 8733
    - molecular genetics 5661
    - nucleotide sequences 8733
- **Cytochrome P-450** *cont.*
  - *Nicotiana tabacum,* genetic transformation 8733
  - *Petunia hybrida,* nucleotide sequences 5647
- **Cytochromes**
  - *Nicotiana tabacum*
    - gene expression 12124, 13237
    - genetic transformation 13237
    - nucleotide sequences 12124
  - *Oryza sativa*
    - gene expression 12124
    - nucleotide sequences 12124
  - *Solanum melongena,* nucleotide sequences 11897
- **Cytogenetics** 1188
  - *Avena,* reviews 4788
  - books 5705
  - *Hordeum vulgare* 5843
- **Cytokinins**
  - *Arabidopsis thaliana*
    - gene expression 7644
    - mutations 3519, 7644
  - gene expression 4554
  - genetic transformation 9995
  - *Lycopersicon esculentum,* genetic transformation 8344
  - *Nicotiana glauca,* gene expression 12154
  - *Nicotiana langsdorffii,* gene expression 12154
  - *Nicotiana plumbaginifolia*
    - genetic transformation 937
    - mutations 8554, 13222
    - pleiotropy 8554
  - *Nicotiana tabacum*
    - gene expression 910, 914, 13204
    - genetic transformation 910, 914, 12150, 13204
  - *Thuja occidentalis,* tissue culture 8656
- **Cytology** 1187, 12437
  - *Allium cepa* 108
  - *Aloe,* DNA 12280
  - *Arachis hypogaea,* books 9950
  - *Brassica campestris* 829
    - sarson 829
    - turnips 829
  - *Brassica juncea* 829
  - *Brassica oleracea,* cauliflowers 829
  - cereals 6729
  - *Citrus limon* 8445
  - *Citrus reticulata* 8445
  - *Citrus sinensis* 797, 8445
  - *Coprinus cinereus* 1065
  - fruit crops, books 12326
  - *Hordeum bulbosum* 5843
  - *Lens culinaris* 7122
  - *Luffa* 725
  - *Lycopersicon esculentum* 670
  - *Milium montianum* 467
  - *Nicotiana tabacum,* sterols 13223
  - *Oryza sativa* 405
  - *Pinus sylvestris* 2133
  - *Raphanus sativus* 829
  - Triticeae 10062
- **Cytoplasm**
  - *Zea mays*
    - mutations 6888
    - polymerase chain reaction 6888
- **Cytoplasmic inheritance** 6693
  - *Agaricus bisporus* 4494
  - *Brassica pekinensis,* chlorophyll 4031
  - *Cichorium intybus,* chlorophyll 12989
  - *Festuca × Lolium* 3875
  - *Hordeum × Triticum* 8887
  - *Iris fulva* 2200
  - *Iris hexagona* 2200
  - *Liriodendron tulipifera* 11008
  - *Lycopersicon esculentum,* yield 5178
  - *Magnolia* 7499
  - *Musa* 5312
  - *Nicotiana tabacum,* pollen 13219
  - *Pelargonium zonale*
    - DNA 12232
    - organelles 4391, 12232
    - pollen 12232
  - reviews 11178
  - *Solanum melongena,* streptomycin 5193
  - *Solanum nigrum,* antibiotics 7540
- **Cytoplasmic male sterility** 2380
  - *Aegilops kotschyi* 1284
  - *Aegilops variabilis* 1284

- **Cytoplasmic male sterility** *cont.*
  - *Allium porrum,* mitochondrial genetics 11181
  - *Allium schoenoprasum*
    - genetics 9507
    - mitochondrial genetics 5143, 9507
    - restriction fragment length polymorphism 5143
  - *Beta maritima*
    - linkage 10908
    - mitochondrial genetics 2031, 10907
    - nucleocytoplasmic interaction 10907
  - *Beta vulgaris*
    - sugarbeet 2023, 5427-5429, 9704, 12115
      - gene mapping 9706
      - genetic markers 10908
      - genetics 9705
      - linkage 9707, 10908
      - mitochondrial genetics 4279, 7378, 9706-9707, 10907
      - nucleocytoplasmic interaction 10907
      - random amplified polymorphic DNA 13186
  - *Brassica,* reviews 11864
  - *Brassica campestris* 13130
  - *Brassica juncea* 13130
    - mitochondrial genetics 8476
  - *Brassica napus*
    - rape 827, 833, 1940, 7323, 13129-13130
      - artificial selection 12039
      - genetics 1942, 10841
      - mitochondrial genetics 830, 4211, 5361-5362, 9665
      - random amplified polymorphic DNA 13132
      - restriction fragment length polymorphism 4211
  - *Brassica oleracea*
    - broccoli 5148
    - cabbages 1940
    - cauliflowers 1940
    - kale 1940
  - *Brassica oxyrrhina,* mitochondrial genetics 8476
  - *Brassica* × *Diplotaxis,* backcrossing 13131
  - *Brassica* (×) *Raphanus* 5357
  - *Cichorium intybus,* mitochondrial genetics 5161
  - *Cichorium* (×) *Helianthus,* mitochondrial genetics 5161
  - Cruciferae, reviews 11864
  - *Daucus carota,* nucleocytoplasmic interaction 11846
  - *Festuca pratensis* 460
  - genetic engineering 1183
  - *Helianthus annuus* 9681, 10857, 12060
    - gene expression 4233, 10859
    - mitochondrial genetics 4233, 10858-10859, 12059
    - restriction fragment length polymorphism 12059
  - *Helianthus petiolaris,* mitochondrial genetics 10858
  - *Hordeum vulgare,* backcrossing 1353
  - *Medicago* 474
  - mitochondrial genetics 3554
    - reviews 8804
  - *Nicotiana*
    - gene expression 10935
    - nucleocytoplasmic interaction 10935
    - protoplast fusion 10935
  - *Nicotiana eastii* 5454
  - *Nicotiana suaveolens* 12142
    - genetic transformation 13220
  - *Nicotiana tabacum* 5454-5455, 12142
    - genetic transformation 13220
  - *Oryza sativa* 409, 412, 1533, 1538-1539, 1541-1543, 1545, 1563, 1576, 2734-2735, 2738, 2742, 3820, 3824, 4887, 6027, 6972, 8020-8022, 9208-9209, 10364, 11577
    - gene expression 408
    - genetics 1546, 2740, 10365
    - mitochondrial genetics 2732, 3826, 6021
    - nucleotide sequences 3826
- **Cytoplasmic male sterility** *cont.*
  - *Oryza sativa cont.*
    - restriction fragment length polymorphism 3822
  - *Pennisetum glaucum* 1494-1495, 1498-1502, 1507, 6001, 7986, 10328
    - combining ability 6008
    - germplasm releases 3783
    - mitochondrial genetics 11536, 12701
    - restriction fragment length polymorphism 11536, 12701
  - *Petunia*
    - gene expression 6585
    - molecular genetics 6585
  - *Petunia hybrida*
    - mitochondrial genetics 1018, 6584, 12266
    - nucleotide sequences 12266
  - *Petunia parodii,* mitochondrial genetics 6584
  - *Phaseolus coccineus*
    - mitochondrial genetics 11744
    - restriction fragment length polymorphism 11744
  - *Phaseolus vulgaris* 5023
    - gene expression 5024
    - mitochondrial genetics 2887, 5024, 10505, 11744
    - restriction fragment length polymorphism 11744
  - *Populus,* statistics 1194
  - *Raphanus sativus* 629-630, 5136
    - mitochondrial genetics 8295, 12962
    - polymerase chain reaction 8295
    - reviews 11864
  - reviews 1201
  - *Secale cereale,* genetic markers 11410
  - *Sorghum,* mitochondrial genetics 10307
  - *Sorghum bicolor* 1476, 3772, 6921, 6923-6924, 6926-6929, 6945, 10315
    - chloroplast genetics 6922
    - restriction fragment length polymorphism 6922
  - statistics 1194
  - triticale, mitochondrial genetics 8991
  - *Triticum aestivum* 1284, 10059, 12501
    - artificial selection 12500
    - chromosome addition 3612
    - chromosome translocation 12502
    - gene location 12502
    - genetics 3612, 12500
    - mitochondrial genetics 7756, 10088
  - *Triticum timopheevii* 10059
    - mitochondrial genetics 7756
  - *Vicia faba*
    - immunology 8166
    - molecular genetics 3954
  - *Zea mays* 1419, 10252
    - gene expression 3746
    - gene location 12670
    - genetic markers 9075
    - genetics 9076, 10250
    - germplasm releases 9070
    - *in vitro* selection 10250
    - mitochondrial genetics 311, 1418, 3741, 3745
    - restriction fragment length polymorphism 9076, 12670
- **Cytosine deaminase,** *Arabidopsis thaliana,* genetic transformation 3498
- **Cytosol aminopeptidase**
  - *Dianthus caryophyllus* 3394
  - *Lycopersicon esculentum,* gene expression 9549
  - *Pisum sativum* 1738
- **Cytotaxonomy** 12461
  - *Anthurium* 2179
  - *Brassica campestris* 829
    - sarson 829
    - turnips 829
  - *Brassica juncea* 829
  - *Brassica oleracea,* cauliflowers 829
  - *Bromus* 3895
  - *Chenopodium* 7016
  - *Malus* 9574
  - *Melilotus* 6091
  - *Oryza* 6991
  - *Phaseolus* 8228
  - *Phleum* 4930
  - *Pinus* 3359
  - *Raphanus sativus* 829
- **Cytotaxonomy** *cont.*
  - *Sedum* 9905
  - *Solanum* 10822
  - *Vigna* 8228
  - *Viola pilosa* 5646
- **2,4-D**
  - triticale 3666
  - *Triticum aestivum* 3666
  - *Triticum durum* 3666
- ***Dactylis glomerata***
  - abscisic acid 3872
  - artificial selection, cold resistance 3870
  - breeding 454, 2790, 6057, 10052
  - cell culture 4914
  - chemotaxonomy 3874
  - cold resistance 2786, 7022
  - crop density 7023
  - digestibility 454
  - ecotypes 12784
  - genetic resources 6057, 10052, 12784
  - growth regulators 3872
  - heritability
    - cold resistance 1626
    - *Monographella nivalis* 1626, 7021-7022
    - nitrogen 4915
    - nutrients 4915
    - *Typhula ishikariensis* 1626, 7021-7022
  - minerals 8065
  - *Monographella nivalis* 7021-7022
  - nitrogen 7019
  - nutrients 7019
  - persistence 454
  - plant composition 8065
  - radiation 3873
  - *Rhynchosporium orthosporum* 455
  - stress 7019
  - synthetic varieties 2790
  - tissue culture 3872-3873
  - *Typhula ishikariensis* 7021-7022
  - variety trials 9249
  - varieties 10392
    - AC Nordic 2791
    - Jay 12785
- ***Dactylorhiza fuchsii,*** taxonomy 1027
- ***Dactylorhiza majalis,*** taxonomy 1027
- ***Dahlia pinnata***
  - morphology 989
  - multivariate analysis 989
- ***Dallwatsonia felliana,*** taxonomy 2816
- ***Danthonia,*** taxonomy 7040
- ***Danthonia annableae,*** taxonomy 9273
- ***Danthonia linkii***
  - artificial selection
    - inflorescences 3897-3898
    - seeds 3897-3898
  - varieties, Bunderra 2807, 3898, 12798
- ***Danthonia richardsonii***
  - artificial selection
    - inflorescences 3897-3898
    - seeds 3897-3898
  - varieties, Taranna 2806, 3898, 11651
- ***Dasineura lini,*** *Linum usitatissimum,* linseed 5382
- ***Dasineura marginemtorquens***
  - *Salix viminalis* 976
    - heritability 977
- ***Dasypyrum villosum***
  - chloroplast genetics 3594, 7695
  - chromosome banding 2467, 9269
  - DNA 9268-9269
  - genetic resources 7691, 8084
  - heterochromatin 9269
  - mitochondrial genetics 3594, 7695
  - restriction fragment length polymorphism 7695
- ***Dasypyrum* × *Triticum***
  - aneuploidy 2460
  - chromosome addition 2460
  - chromosome banding 197, 2467
  - chromosome number 12492
  - chromosome pairing 2460, 12492
  - chromosome substitution 197
  - embryo culture 189
  - *Erysiphe graminis* 12492
  - genomes 2460
  - intergeneric hybridization 189, 197, 2460, 2467, 12492
  - proteins 12492
  - *Puccinia graminis* 12492

- ***Dasypyrum × Triticum*** *cont.*
  - *Puccinia recondita* 12492
- **Databases** 2292, 4526, 4535-4536
  - *Abelmoschus esculentus,* genetic resources 1879
  - *Aegilops,* genetic resources 9263
  - *Avena* 10198
  - *Beta*
    - gene banks 2024
    - genetic resources 10902
  - *Beta vulgaris,* gene banks 2024
  - *Brassica,* genetic resources 7318
  - gene mapping 4556
  - genetic markers 9985
  - genetic resources 12340, 12343
  - genetic transformation 9985
  - grasses, genetic resources 9263
  - *Hordeum vulgare* 12586
    - barley yellow dwarf luteovirus 2623
    - barley yellow mosaic bymovirus 2623
    - diseases 2623
  - Leguminosae
    - genetic resources 11694
    - nucleotide sequences 11694
    - taxonomy 11694
  - nucleotide sequences 2335, 9983, 9985-9986, 11198, 12317-12318
  - ornamental woody plants 5611
  - *Oryza sativa* 7007
    - gene mapping 8007
    - genetic resources 10336
    - molecular genetics 11568
  - *Phaseolus* 11736
  - *Prunus persica,* varieties 9587
  - *Saccharum officinarum,* breeding 9695
  - *Solanum tuberosum,* variety trials 8235
  - *Sorghum bicolor* 6913
  - taxonomy 2408, 7680, 12343
  - *Theobroma cacao*
    - gene banks 6472
    - genetic resources 6472
  - transposable elements 9986
  - *Triticum,* genetic resources 9263
  - *Triticum aestivum,* gene mapping 7735
  - Umbelliferae 4631
  - *Zea mays,* mutations 11444
- ***Datisca glomerata,*** random amplified polymorphic DNA 11184
- ***Datura***
  - genetic variance
    - alkaloids 7548
    - hyoscyamine 7548
  - interspecific hybridization 2226, 7548
  - leaves 11104
  - scopolamine 2226
  - taxonomy 11104
- ***Datura candida***
  - interspecific hybridization 2226
  - scopolamine 2226
- ***Datura fastuosa***
  - alkaloids 4477
  - cell culture 8734
  - folylpolyglutamate 8734
  - genetic transformation 5662, 10242
  - *in vitro* selection 6606
  - methotrexate 6606, 8734
  - tissue culture 4477
  - toxic substances 6606
  - transposable elements 10242
- ***Datura stramonium***
  - gene expression, tropinone reductases, nucleotide sequences, tropinone reductases 11101
  - nucleotide sequences, tropinone reductases, nucleotide sequences, tropinone reductases 11101
- ***Datura suaveolens***
  - interspecific hybridization 2226
  - scopolamine 2226
- ***Daucus carota***
  - anther culture 10615
  - artificial seeds 8284
  - breeding 5084
    - reports 1071
  - cell culture 1801-1802, 8285, 10612, 11847
  - desiccation 5118
  - *Erwinia carotovora* 3015
  - gene expression 2006, 10612
    - glufosinate 9973
    - glycoproteins 4013
- ***Daucus carota*** *cont.*
  - gene expression *cont.*
    - herbicides 9973
    - naringenin-chalcone synthase 10614
  - genetic engineering 10612
  - genetic transformation 2006, 3014, 4014, 10612
    - glufosinate 9973
    - growth regulators 150
    - herbicides 9973
    - IAA 150
    - IBA 150
    - naringenin-chalcone synthase 10614
  - haploidy 10615
  - *in vitro* culture 1803
  - *in vitro* selection
    - chlorsulfuron 12948
    - herbicides 12948
  - molecular genetics 617
    - β-fructofuranosidase 10613
    - glycoproteins 4013
    - tissue culture 1800, 4015
  - nitrates 5119
  - nitrites 5119
  - nucleocytoplasmic interaction
    - cytoplasmic male sterility 11846
    - development 11846
    - flowers 11846
  - nucleotide sequences 7173
    - β-fructofuranosidase 10613
    - naringenin-chalcone synthase 10614
  - quality 5119, 8286, 12947
  - random amplified polymorphic DNA 9480
  - restriction fragment length polymorphism 9480
  - somaclonal variation
    - *Alternaria dauci* 4016
    - carotenes 7174
  - tissue culture 5118, 7175, 8284, 9481
  - variety trials 10611, 11845
  - varieties, Hisar Gairic 7172
- ***Daucus* (×) *Nicotiana,*** protoplast fusion 8283
- **Decanoic acid**
  - *Cuphea*
    - artificial selection 6433
    - genetics 6433
  - *Cuphea lanceolata*
    - artificial selection 6433
    - genetics 6433
  - *Cuphea viscosissima*
    - artificial selection 6433
    - genetics 6433
- ***Decodon verticillatus***
  - flowers 11064
  - genetics, heterostyly 4467
  - heterostyly 9908, 11064
  - outcrossing 9908
  - pollination 9908
  - self compatibility 9908, 11064
- **Defoliation**
  - *Lolium multiflorum* 12790
  - *Lolium perenne* 12790
  - *Populus* 5544
  - *Populus deltoides* 5544
  - *Zea mays* 9109
- **Dehydrin**
  - *Bromus inermis,* gene expression 12808
  - molecular genetics 143
  - *Prunus persica,* gene expression 10757
  - *Sorghum bicolor,* gene expression 5997
- **Deletions** (*see also* Chromosome translocation)
  - *Hordeum vulgare* 12596
  - *Triticum aestivum* 12496
  - *Zea mays*
    - colour 9055
    - development 9047
    - seedlings 9055
- ***Delia***
  - *Brassica campestris,* sarson 12054
  - *Brassica juncea* 12054
  - *Brassica napus,* rape 12054
  - *Sinapis alba* 12054
- ***Delia coarctata,*** *Triticum aestivum* 6809
- ***Delia floralis,*** *Brassica napus,* swedes 3017-3018
- ***Delia radicum,*** *Brassica napus,* swedes 3018
- ***Delphinium,*** taxonomy 9878
- ***Dendranthema***
  - breeding 6559
  - colour 12260
  - *Frankliniella occidentalis* 4434, 12260
  - gamma radiation 9835
  - genetic resources 6559
  - genetic transformation 5628
  - induced mutations
    - corolla 9835
    - leaves 9835
  - isoenzymes 7512
  - mutations, colour 12260
  - radiation 990
  - *Thrips palmi* 9879
  - tissue culture 990, 5637
  - variety classification 7512
- ***Dendranthema grandiflora***
  - biotechnology 13329
  - *Frankliniella occidentalis* 12259
  - gene expression, naringenin-chalcone synthase 4426
  - genetic engineering, naringenin-chalcone synthase 4426
  - genetic transformation 8671, 12248
    - colour 8680
    - flowers 8680
    - naringenin-chalcone synthase 4426, 8680
  - random amplified polymorphic DNA 3390, 4414
  - restriction fragment length polymorphism 12249
  - tissue culture 8671, 12248
  - variety classification 4414
- ***Dendranthema indicum,*** breeding 3397
- ***Dendranthema morifolium***
  - aneuploidy 1001
  - artificial selection 997
  - breeding 3397
  - cyanogens 9875
  - *Fusarium oxysporum* 11073-11074
  - gamma radiation 2177
  - genetic variance 11067
    - yield components 6569
  - heritability 11067
    - yield components 6569
  - induced mutations 2177
  - malonyltransferases 9875
  - *Puccinia horiana* 8694
  - tissue culture 1001, 2177
  - variety trials 11057
  - yield components 11067
- ***Dendrobium***
  - chloroplast genetics, taxonomy 13379
  - chromosome pairing 8712
  - fertility 13376
  - genetic transformation
    - luciferase 13375
    - techniques 13375
  - interspecific hybridization 8710
  - nomenclature 6595, 12276
  - polyploidy 8712, 13376
  - taxonomy 6595
  - tissue culture 13378
- ***Dendrobium aphyllum***
  - fertility 8710
  - pollination 8710
- ***Dendrobium brevicaudum,*** taxonomy 12278
- ***Dendrobium funiushanense,*** taxonomy 6592
- ***Dendrobium moniliforme,*** tissue culture 5653
- ***Dendrobium pendulum,*** tissue culture 7529
- ***Dendrobium tobaense,*** taxonomy 8717
- ***Dendrocalamus brandisii***
  - breeding 11116
  - nutritive value 11116
- ***Dendrocalamus hamiltonii***
  - breeding 11116
  - interspecific hybridization 11116
  - nutritive value 11116
  - tissue culture 11121
- ***Dendrocalamus latiflorus***
  - breeding 11116
  - interspecific hybridization 11116
  - nutritive value 11116
- ***Dendrocalamus longispathus,*** tissue culture 11120
- ***Dendrocalamus somdevai,*** taxonomy 5678
- ***Dendrocalamus strictus***
  - genetics, chlorophyll 5677
  - sexual reproduction 9945

Dendrocalamus × Bambusa, intergeneric hybridization 11116
Dendrocalamus × Sinocalamus, intergeneric hybridization 11116
Denmark, National Committee for Plant Production, reports 5688
3-Deoxy-D-*arabino*-heptulosonate 7-phosphate synthase
  Lycopersicon esculentum
    gene expression 4054
    nucleotide sequences 4054
Deoxyribonuclease, *Triticum aestivum,* gene location 7767
Deroceras reticulatum
  Solanum tuberosum 8281
  Triticum aestivum 261
Derwentia, evolution 8661
Deschampsia, chromosome morphology 2810
Deschampsia cespitosa
  natural selection
    metals 11653
    pollution 11653
  population genetics, isoenzymes 465, 11653
Desiccants, *Vicia faba* 528
Desiccation
  Arabidopsis thaliana
    gene expression 3509
    induced mutations 81
  Brassica oleracea, broccoli 4034
  Brassica pekinensis 12973
  Craterostigma plantagineum
    gene expression 6577, 8669
    molecular genetics 6577, 8674
  Daucus carota 5118
  Lycopersicon esculentum, molecular genetics 5172
  Sorghum bicolor, gene expression 5997
  Triticum aestivum 235, 12525
    artificial selection 5890
Desmanthus, taxonomy 3938
Desmodium affine
  growth period 7066
  pollination 7066
  quality 7066
Desmodium orinocense, nomenclature 10447
Desmodium triarticulatum
  growth period 7066
  pollination 7066
  quality 7066
Desmodium uncinatum
  growth period 7066
  pollination 7066
  quality 7066
Desynapsis
  Secale cereale
    genetics 10208
    mutations 10208
  Zea mays
    genetics 2679
    mutations 2679, 3733
Determinate and indeterminate habit
  Cucumis sativus, genetics 8372
  Glycine max 1703, 2856, 6130, 6133, 9349, 11703, 11710, 12835, 12840-12841
  Lupinus albus 4957, 6094, 8120, 10440
  Lycopersicon esculentum, mutations 6267
  Macrotyloma × Lablab, artificial selection 6227
  Phaseolus vulgaris 6162
  Pisum sativum, induced mutations 8192
  Vicia faba 5003
  Vicia sativa
    genetics 2843
    induced mutations 2843
Detzneria, evolution 8661
Deuterophoma tracheiphila
  Citrus limon 7301
    in vitro selection 3177
Development
  Agaricus bitorquis 4506
  Alnus rubra 9803
  Antirrhinum, gene expression 3408-3409
  Antirrhinum majus, gene expression 5833
  Arabidopsis thaliana 1164, 11214
    epistasis 10020-10021
    gene expression 74, 393, 2359, 3408-3409, 3518, 5833, 7648, 10019-

Development *cont.*
  Arabidopsis thaliana cont.
    gene expression *cont.*
      10021, 10030, 11222, 12404, 12419, 12421
    gene mapping 12421
    genetic transformation 393, 5782, 7648
    genetics 7648
    induced mutations 5782, 10030
    molecular genetics 1162
    mutations 74, 1162, 3518-3519, 3521, 10019-10021, 10372, 11221-11222, 12418-12419, 12421
  Arachis hypogaea 7361
  Aster lanceolatus 1004
  Avena sativa 1377, 11399
  cereals 5844
  Chamaecrista fasciculata
    heritability 2189
    maternal effects 2189
  Chamomilla recutita 13386
  Cicer arietinum, heterosis 9416
  Citrus 9621
  Clianthus formosus 13337
  Cryptomeria japonica 9830
  Cucumis sativus 1862
  Daucus carota, nucleocytoplasmic interaction 11846
  Festuca arundinacea 7028
  gene expression 2385, 3544, 10036, 10041-10042, 10054, 11243
  Gossypium barbadense 10968
  Gossypium hirsutum 10968
  Helianthus annuus 5386, 5388
  Hordeum vulgare 5845, 10170
    mutations 6837
  Ipomoea horsfalliae 10625
  Linum usitatissimum, flax, induced mutations 7425
  Lycopersicon esculentum 7228
    gene expression 10666
    gene mapping 8331
    heterosis 10669
    nucleotide sequences 8331
  Malus pumila 7258
    combining ability 3112
    genetic variance 3112
  mathematics 10254
  molecular genetics 3566, 4633, 10054
    books 9948
    reviews 11272
  Nicotiana glauca, chimaeras 4304
  Nicotiana plumbaginifolia
    mutations 8554
    pleiotropy 8554
  Nicotiana tabacum
    chimaeras 4304
    gene expression 912, 2384, 9721, 10372
    genetic transformation 912, 2053, 10372
    mutations 10936
  Oryza sativa 420, 6036, 8024, 12735
    gene expression 393, 10372
    gene location 393
    molecular genetics 393, 10372
  Paullinia cupana 7311
  Pennisetum glaucum, heterosis 1496
  Petunia hybrida
    gene expression 3416-3417
    molecular genetics 3416
    mutations 3416
  Phleum pratense 12804
  Picea abies 2143
    mathematics 4372-4373
    reciprocal effects 13313
  Picea engelmannii, heritability 2144
  Picea glauca, heritability 2144, 4374
  Picea sitchensis, clonal variation 13312
  Pinus aristata 5587
  Pinus sylvestris 3355-3356, 13299
    artificial selection 3358
  Pisum sativum 11759
    evolution 12895
    mutations 11755, 12894
  Populus, clonal variation 6541
  Populus trichocarpa, clonal variation 6541
  Prunus persica 5259, 10756
  Prunus serotina 748

Development *cont.*
  random amplified polymorphic DNA 5761
  restriction fragment length polymorphism 5761
  Rosa 11049
  Salix, stability 5551
  Sequoia sempervirens 9828
  Sinapis alba 2358
  Sorghum bicolor 2709
    gene dosage 12692
    genetic variance 7978
    heritability 7978
    mutations 12692
  Triticum aestivum 213, 2489, 5845, 11319, 11328
    artificial selection 11331
    combining ability 11329
    heritability 11329, 11331
  Triticum durum 8891
  Zea, gene expression 10264
  Zea mays 1427, 9059, 9088, 10251, 10254, 11459, 11477, 12678-12679
    combining ability 329, 10267
    deletions 9047
    gene dosage 12676
    gene expression 2681, 3711, 7882, 7915, 10264
    gene location 332, 9085-9086
    gene mapping 9046
    genetic transformation 7882
    genetic variance 10267
    genetics 9047, 9085-9086, 9104
    molecular genetics 7915
    mutations 332, 7928, 9085-9086, 11454
    restriction fragment length polymorphism 9046
  Zingiber officinale 2232
Diabrotica virgifera
  Tripsacum × Zea 7969
  Zea mays 3770, 12684
Diallel analysis 4622, 12429
  Phaseolus vulgaris, growth period 4622
Dianthus
  breeding 6559
  genetic resources 6559
  induced mutations
    colour 4428
    flowers 4428
  tissue culture 4428
  X radiation 4428
Dianthus caryophyllus
  biotechnology 13329
  cytosol aminopeptidase 3394
  ethylene 5639
  Fusarium oxysporum 3399, 3401, 3403
  gene expression
    ethylene 4425
    flowers 4425
    growth regulators 4425
    senescence 4425
  genetic transformation 8673
  glucose-6-phosphate isomerase 3394
  growth regulators 5639
  in vitro selection, *Fusarium oxysporum* 1012
  isoenzymes 3394
  molecular genetics
    ethylene 4425
    flowers 4425
    growth regulators 4425
    senescence 4425
  Pseudomonas woodsii 8693
  quality 5639
  senescence 5639
  tissue culture 2390, 6570, 13359
  variety classification 3394
Dianthus zeyheri, tissue culture 3396
Diaphorase, *Eustoma grandiflorum,* genetics 4424
Diaporthe phaseolorum
  Glycine max 9372
    germplasm releases 3952
Diaporthe woodii, *Lupinus* 3930
Diatraea grandiosella, *Zea mays* 2704
Diatraea saccharalis
  Saccharum officinarum 3265, 5423
    multivariate analysis 3266
  Sorghum bicolor 6951

Dichanthium
  drought resistance 461
  genetic resources 461
Diclofop
  Lolium multiflorum 12791
  Lolium rigidum 458
  Pisum sativum 458
Dictionaries
  agriculture 5703, 7576
  breeding 12313, 12327
  genetics 12313
  molecular genetics 12313
Dictyophora indusiata, isoenzymes 8749
Didymella (*see also Mycosphaerella)*
Didymella bryoniae
  Cucumis melo 8367
  Cucumis sativus 9565, 10711, 11938
Didymella fabae, *Vicia faba* 2882
Dieffenbachia
  varieties
    Golden Sunset 3422
    Tropic Marianne 3423
    TS8567 3423
Diethyl sulfate
  Pisum sativum 11752
  Sorghum bicolor 6931
  Vicia faba 6147-6148
Differentiation (*see* Development)
Diflufenican, *Pisum sativum, in vitro* selection 7120
Digestibility
  cereals 11287
  Dactylis glomerata 454
  Digitaria milanjiana 6074
  Elymus hispidus
    combining ability 9261
    heritability 9261
  Festuca arundinacea, heritability 9256
  fodder legumes 4910
  Gliricidia sepium 4962
  Glycine max 517
  grasses 4910, 10394
  Hordeum vulgare 4764, 6836, 10180
  Leucaena leucocephala 9317
  Leucaena pallida 9317
  Lolium perenne 9252, 10394
  Lotus corniculatus 1669
  Lotus uliginosus 1669
  Oryza sativa 11597
  Panicum amarum 5999
  Panicum virgatum 5999
  Pennisetum glaucum, germplasm releases 377
  Phalaris arundinacea 10409
  Phaseolus vulgaris 12877
  Phleum pratense 8091
  Pisum sativum 10523, 12896
  Secale cereale 297
  Setaria sphacelata 6074
  Sorghum bicolor 1484, 4864
  Trifolium subterraneum, genotype environment interaction 12815
  Vicia faba 5009-5011, 5013, 8168
  Zea mays 1437, 5976, 5978-5979, 9133
    combining ability 1455
    genetics 12680-12681
    mutations 10277
Digitalis subalpina
  chemotaxonomy 12292
  glycosides 12292
Digitaria eriantha
  artificial selection
    fertility 462
    seed production 462
  varieties, Advance 462
Digitaria milanjiana
  digestibility 6074
  varieties, Jarra 2805
Dihydrodipicolinate synthase
  Arabidopsis thaliana
    nucleotide sequences 12187
    polymerase chain reaction 12187
  Nicotiana tabacum, genetic transformation 4292
  Populus, nucleotide sequences 12187
Dihydrokaempferol 4-reductase
  Glycine max
    gene expression 12842
    molecular genetics 12842
  Hordeum vulgare
    genetic transformation 3673
Dihydrokaempferol 4-reductase *cont.*
  Hordeum vulgare cont.
    induced mutations 3673
  Lotus corniculatus
    gene expression 8121
    genetic transformation 8121
  Petunia hybrida
    gene expression 9881, 13368
    gene location 13368
    genetic engineering 13368
    genetic transformation 4441, 9881, 13368
    nucleotide sequences 13368
  Pharbitis nil
    gene mapping 8675
    mutations 8675
    transposable elements 8675
  Zea mays, genetic engineering 4441, 9881
  Hordeum vulgare
    gene expression 2615
    genetic transformation 2615
    mutations 2615
Dihydroorotate dehydrogenase, *Agrocybe aegerita,* genetic transformation 7561
Dihydrozeatin, *Brassica napus,* rape 4212
DIMBOA
  Triticum aestivum 260, 2570
  Zea mays 2704, 10302
    mutations 10265
Dimethoate, *Hordeum vulgare* 11383
Dimethyl sulfate
  Medicago 2826
  Trifolium pratense 2841
Dimethyl sulfonate, *Capsicum annuum* 11899
Dimethyl sulfoxide
  Corchorus olitorius 6526
  Musa 6321
Dimocarpus longan
  morphology 13110
  peroxidases 13110
  taxonomy 13110
Dioscorea
  biotechnology 3031
  breeding 6228
    books 12315
  chloroplast genetics, taxonomy 626
  evolution 8292
  genetic resources 6228
  germination 8292
  in vitro selection, *Glomerella cingulata* 9490, 11852
  plant composition 7182
  quality 7182
  restriction fragment length polymorphism, taxonomy 626
  taxonomy 4021, 8293
    books 12315
Dioscorea alata
  tissue culture 625
  varieties, Tainung-1 12958
Dioscorea bulbifera, tissue culture 624
Dioscorea cayenensis
  chloroplast genetics, taxonomy 626
  genetics, isoenzymes 12959
  restriction fragment length polymorphism, taxonomy 626
Dioscorea deltoidea
  cell culture 5668
  glycosides 5668
  steroid saponins 5668
Dioscorea mesoamerica, taxonomy 4021
Dioscorea rotundata
  chloroplast genetics, taxonomy 626
  genetics, isoenzymes 12959
  restriction fragment length polymorphism, taxonomy 626
Diospyros, taxonomy 9631
Diospyros ghatensis, taxonomy 8451
Diospyros kaki
  flowers 5329
  genotype environment interaction, yield components 8452
  heritability, yield components 8452
  protoplasts 811
  quality 10820
  sex 5329, 10819
  varieties, Xiaofangshi 7310
Diospyros pyrrhocarpoides, taxonomy 8451
Dioxygenase
  Hordeum vulgare
    gene expression 12592
    nucleotide sequences 12592
Diplocarpon rosae
  Rosa 9855
  Rosa hybrida 8666, 11051, 13349
Diplodia (*see also Botryodiplodia; Botryosphaeria)*
Diploidy
  Brassica 9664
  Brassica campestris 9664
  Brassica oleracea 9664
  evolution 4630, 6705
  Hordeum vulgare 4758
  Solanum, tuberous species 8241
  Solanum tuberosum 5097, 8242
  Zea mays 9060
Diplotaxis
  chemotaxonomy 13176
  multivariate analysis, flavonoids 13176
Dipterocarpus alatus, seed production 10989
Diquat, *Hordeum murinum,* genetics 5928
Disa, chloroplast genetics, taxonomy 8724
Disa atricapilla
  flowers 9893
  pollination 9893
Disa bivalvata
  flowers 9893
  pollination 9893
Disa ferruginea
  flowers 11090
  pollination 11090
Disbudding, *Rubus idaeus* 11987
Diseases 4542, 4547, 5739, 6649, 6651-6652, 6654
  Abelmoschus 1889
  Abelmoschus esculentus 1889
  Allium cepa 9516
  Arabidopsis thaliana
    gene expression 5742
    genetics 11226
    mutations 5742, 11226
  Arachis hypogaea 4253
  artificial selection 2309, 4561
    reviews 34
  Avena sativa 4794
  Brassica 12029
  Brassica napus, rape 8487
  cereals 2436, 6737
  Cicer arietinum 7134, 8139
    reviews 8140
  Cocos nucifera 6404
  conferences 3446
  crops 2291, 2306, 4550, 4552, 6655, 6657, 7590-7592, 10057
    artificial selection 6648
    genetic engineering 9963
    genetic markers 3480
    genetic transformation 9963
    genetics 2311
    induced mutations 6656
    molecular genetics 9962
  evolution 11168
  forest trees, artificial selection 9770
  gene expression 1116, 5738
    reviews 8780
  genetic engineering 3496, 5733
    books 5704
  genetic markers 4561
  genetic transformation 4548, 9995
  genetic variance 11168
  genetics 1116
  grain legumes, reviews 8138
  history, reviews 6650
  Hordeum vulgare 7689
    databases 2623
  in vitro selection 5737
  Lens culinaris 6199-6200, 8139
    reviews 8140
  Linum usitatissimum, flax, genetics 3334
  Lycopersicon 6273
  Lycopersicon esculentum 6273
  Medicago sativa 4945
    artificial selection 2823
    germplasm releases 478-479, 9290-9291, 11668
  molecular genetics 5735-5736
  natural selection 8786
  Nicotiana debneyi 7403
  Nicotiana glutinosa 7403

Diseases *cont.*
  Nicotiana tabacum
    gene expression 5742, 8562
    genetic transformation 5742
  Oryza sativa 1601, 2757, 9229
  Pennisetum glaucum, germplasm releases 11541
  Phaseolus vulgaris 2893, 9395
  Pisum sativum 6197, 8139
    molecular genetics 6196
    reviews 8140
  Populus 7437
  Pyrus pyrifolia 3126
  restriction fragment length polymorphism 4561, 5732
  Solanum phureja 8261
  Solanum tuberosum 613, 7165, 8261-8262, 10592
    conferences 13411
  Sorghum bicolor 6921, 6942
  temperate fruits
    in vitro selection 3109
    reviews 3109
  Triticum aestivum 254, 2429, 5893, 6770-6771, 8924, 11360, 12572
  Triticum durum 7802
  Vicia faba 6152, 8139
    reviews 8140
  Vigna angularis 8230
  Vigna mungo 8230
  Vigna radiata 5074, 8230
  Zea mays 2688, 6902
    genetics 11226
    mutations 11226
Disporum sessile, taxonomy 6590
Disporum uniflorum, taxonomy 6590
Distichlis, salinity 1648
Disulfide isomerase
  Glycine max
    gene expression 3914
    immunology 3914
  Medicago sativa
    gene expression 3914
    immunology 3914
  Nicotiana tabacum
    gene expression 3914
    immunology 3914
Dithiothreitol, *Nicotiana tabacum,* gene expression 12126
Ditylenchus dipsaci
  Cicer arietinum 8141
  Pisum sativum 8141
  Vicia faba 8141
Diuraphis noxia
  Avena sativa 10149
  cereals 2443
  Elymus 8873
  Elymus trachycaulus 2803
  Hordeum vulgare 6856, 8971
    gene location 8972
    genetic markers 8972
    genetics 8972
  Secale 8873
  Sorghum bicolor 10314
  triticale 4807
  Triticeae 6739
  Triticum 8873
  Triticum aestivum 8945, 10149
    gene location 10152
    genetics 3664, 10151-10152
    germplasm releases 11370
DNA 2324, 6695, 7609, 8823
  Acacia 978
  Actinidia deliciosa 9604
  Allium cepa 9604
  Allium sativum 5142
  Aloe
    cytology 12280
    nuclei 12280
  Aloe barbadensis, somaclonal variation 3427
  Anethum 2217
  Bromus 3896
  Cajanus cajan 498, 12913
  Capsicum annuum 700
  Carum 2217
  crops 1126
  Cucumis sativus 3098
  Cuminum 2217
  Dasypyrum villosum 9268-9269
  edible fungi 13400
DNA *cont.*
  evolution 5819
  Festuca arundinacea 7028
  Foeniculum 2217
  Glycine max 8150, 9338, 11712
  Gossypium hirsutum 2082, 7410
  Hordeum vulgare 9604, 11397
  Hyacinthus 9883
  Juniperus virginiana 8865
  Lathyrus sativus 4963
  Lens culinaris 11764
  Lolium temulentum 11628
  Luzula 11652
  Lycopersicon esculentum 670, 11628
  Lycopersicon (×) *Solanum* 5090
  Magnolia grandiflora 8865
  Medicago sativa 8100
    somaclonal variation 3912
  Medicago truncatula 8100
  Mentha piperita 7555
  molecular genetics, techniques 9999
  Narcissus 9883
  Nicotiana tabacum 4298, 7394
  Oryza sativa 395, 1530
    polymorphism 10354
  Panicum 9183
  Pelargonium zonale, cytoplasmic inheritance 12232
  Petroselinum 2217
  Pinus 6547
  Pinus sylvestris 13295
  Pisum sativum 498, 11238
  Pyrus pyrifolia 9604
  Quercus virginiana 8865
  reviews 1193
  Selinum 2217
  Silene pratensis 12250
  Solanum tuberosum 5090, 12930
  Spinacia oleracea 8865
  techniques 56, 1191, 4574, 6919, 8798, 9975
  Theobroma cacao 3276
  Triticum aestivum 4691
  Triticum durum 7670
  Tulipa 9883
  Vaccinium 3144
  Vicia faba 7670
  Vitis vinifera 8428, 11999
  Zea mays 9059, 9069, 11238, 12668-12669
    heterosis 320
    induced mutations 9067
    molecular genetics 7613
    polymerase chain reaction 7613
DNA binding proteins
  Arabidopsis thaliana
    gene expression, nucleotide sequences 11110
    molecular genetics 60, 65
  Avena sativa, gene expression 6966
  Coix lacryma-jobi, gene expression 6883
  gene expression 10464
  genetic transformation 10464
  Glycine max
    gene expression 10464
    nucleotide sequences 10464
  Hordeum vulgare, gene expression 3671
  Lotus corniculatus 10464
  molecular genetics 1130, 12320
  Nicotiana tabacum
    gene expression 5447, 6883, 10929, 13206, 13209
    genetic transformation 6883, 10929, 13206, 13209
    nucleotide sequences 5447, 6174, 11123
  Oryza sativa
    gene expression 6966
    molecular genetics 12674
  Petroselinum crispum
    gene expression 11109
      nucleotide sequences 11110
  Pharbitis nil
    gene expression 4415
    nucleotide sequences 4415
  Pisum sativum, molecular genetics 548
  Raphanus sativus
    gene expression 9493
    gene mapping 9493
  Solanum tuberosum, genetic engineering 13209
DNA binding proteins *cont.*
  Zea mays
    gene expression 3721, 6883
    genetic engineering 12658
    molecular genetics 4815
    mutations 4815
    nucleotide sequences 11429
DNA hybridization 6668
  Aegilops 10078
  Aegilops × *Triticum* 10078
  Arabidopsis thaliana 10006
    polyploidy 1159
  Hordeum vulgare, hordein 4754
  Lathyrus cassius 12258
  Lathyrus hirsutus 12258
  Lathyrus odoratus 12258
  Triticum 10078
  Triticum aestivum 10078
DNA methylation, *Nicotiana tabacum* 9723
DNA photolyases
  Arabidopsis thaliana
    gene expression 3512
    molecular genetics 3512
    nucleotide sequences 3507
DNA polymerase
  Secale cereale
    mitochondrial genetics 3694
    nucleotide sequences 3694
DNA primase, *Triticum aestivum,* molecular genetics 10082
Dodecatheon pulchellum, taxonomy 11071
Dolichos *(see Canavalia; Lablab; Macrotyloma; Vigna)*
Domestication
  crops 11139
    books 2271
  Hordeum spontaneum 6833
  Hordeum vulgare 6833
  Lens, reviews 560
  Lesquerella fendleri 12100
  Oryza sativa 3842
  Phaseolus vulgaris
    genetic distance 8176
    restriction fragment length polymorphism 8176
  Zea mays 3756
  Zea parviglumis 3756
Dominance
  Glycine max, growth period 511
  Oryza sativa
    anthers 411
    pollen 411
  Pyrus pyrifolia, fruits 13054
DOPA, *Vicia faba* 4978
Doritis pulcherrima
  genetic transformation
    anthocyanins 13374
    flowers 13374
  mutations
    anthocyanins 13374
    flowers 13374
Dormancy
  Allium cepa 9508-9509
  Arabidopsis thaliana 5784
    gene location 7643
    induced mutations 7643
  Arachis hypogaea 1980
  Avena fatua, gene expression 5934, 12637
  Brassica campestris, turnip rape 3202
  Bromus secalinus
    gene expression 12805
    gene location 12520
    molecular genetics 12520
  Helianthus annuus, mutations 8496
  Hordeum vulgare 7843
    gene expression 6829
    gene location 12599
    genetics 5915, 12599
  Malus pumila
    combining ability 3112
    genetic variance 3112
  Medicago sativa 10426
  Oryza sativa 1553, 9216
  Panicum virgatum 10319
  Picea abies 5596
  Poa pratensis 6064
  Pseudotsuga menziesii, gene expression 8652
  Senna multijuga
    genetic variation 12198

Dormancy *cont.*
  Senna multijuga cont.
    heritability 12198
  Solanum tuberosum 9463, 12935
  triticale
    genotype environment interaction 12649
    heritability 12649
  Triticum aestivum 2485, 12525
    gene expression 12523
    gene location 12520
    gene mapping 12534
    genetic variance 12526
    genetics 12508, 12510, 12534
    molecular genetics 12520
    mutations 12523
    pleiotropy 12534
Drechslera (*see also Cochliobolus; Pyrenophora; Setosphaeria)*
Drosera, interspecific hybridization 4419
Drosera spathulata, tissue culture 5634
Drought
  Arabidopsis thaliana
    gene expression 7659
    nucleotide sequences 7659
Drought resistance 1110, 7585, 7587, 11162
 (*see also* Heat resistance)
  Abies cephalonica 8646
  Agropyron desertorum, artificial selection 8075
  Agrostis stolonifera
    artificial selection 3906
    heritability 3906
  Arabidopsis thaliana, mutations 7657
  Arachis hypogaea 1986-1989, 3242, 6109, 6425, 10883, 12086
    cell culture 3241
  artificial selection, reviews 3474
  Astragalus cicer, germplasm releases 1678
  Beta vulgaris, sugarbeet 5434
  Brassica juncea 4223
  Brassica napus, rape 4223
  Camellia sinensis 6465-6466, 12118
  Capsicum annuum 1854
    in vitro selection 13027
  Cicer arietinum 6111, 7132-7133
    germplasm releases 11772
  Cocos nucifera 6401-6403, 12072, 13155
  Coffea canephora, artificial selection 12120
  Craterostigma plantagineum
    gene expression 12621
    genetic engineering 916
    molecular genetics 12621
  crops 8917, 9960-9961
  Dichanthium 461
  Elaeis 12069
  Eleusine coracana 11542
  Eucalyptus globulus 5532
  Festuca longifolia 12792
  Festuca × Lolium 3880
  forest trees 5521
  Fragaria chiloensis 5280-5281
  Fragaria virginiana 5280-5281
  Fraxinus pennsylvanica 5521
  gene expression 5729
  Gossypium 9752
  Gossypium hirsutum 3326
  grain legumes 6109
    breeding 8136
  grasses, artificial selection, reviews 1625
  Helianthus annuus 7339, 7352, 7355
    heterosis 6363
  Helianthus argophyllus 7352
  heterosis 1111
  Hordeum spontaneum 11393
  Hordeum vulgare 164, 1337, 1369, 4773, 9961, 10183, 11393
    artificial selection 2622
    gene expression 12621
    molecular genetics 12621
  Lens culinaris 6111
  Leymus angustus 9260
  Lolium perenne 451
    artificial selection 2780, 3879
  Lotus corniculatus, germplasm releases 9311
  Lupinus albus 10442
  Lycopersicon esculentum 4071, 7230, 8336, 11889-11890
    gene expression 1840, 7215
    nucleotide sequences 7215
  Lycopersicon pennellii 4071
    gene expression 1840
  Malus pumila 10720
  Medicago sativa 9285
  molecular genetics 11273
  Nicotiana tabacum 934, 8560, 9728, 10938, 13231
    in vitro selection 5462
  Oryza sativa 1599, 2754, 2768, 3846, 8036, 9960, 10385-10386, 11605
  Panicum turgidum 10321
  Pennisetum glaucum 376, 9960, 10330
  Phaseolus vulgaris 2892, 12882
  Picea abies 7488
  Picea mariana 5598, 7489
  Pinus pinaster 5586
  Pinus ponderosa 5521
  Pisum sativum 6111, 6195
  Populus 6543
  Populus deltoides 8605, 13274
  Populus interamericana 13274
  Populus trichocarpa 13274
  Rosa 5625
  Saccharum, somaclonal variation 7375
  Saccharum officinarum 891, 10899
  Solanum tuberosum 2975, 7163-7164, 11832
  Sorghum bicolor 5998, 9178
    genetics 11530
    heterosis 1111
    induced mutations 11529
    restriction fragment length polymorphism 11529
  Trifolium repens 451
    artificial selection 2780
  triticale × *Triticum,* chromosome substitution 4725
  Triticum 6768, 7790
  Triticum aestivum 164, 237, 240, 1329, 2499, 2518, 3641-3642, 3648, 4665, 4721, 4728, 5889, 8917, 9960, 10126, 10128, 12559
    artificial selection 235, 1327, 3649, 5890, 8918
    chromosome substitution 4725
    combining ability 11346
    gene location 238, 11352
    genotype environment interaction 1327, 6765
  Triticum carthlicum 7790
  Triticum dicoccum 7790
  Triticum durum 164, 1324, 1328, 2499, 6766, 7786
    in vitro selection 12562
    somaclonal variation 12562
  Triticum kotschyi 3642
  Triticum polonicum 7790
  Triticum timopheevii 7790
  Vaccinium 4149-4150
  Vicia faba 6111
  Vigna unguiculata 9433, 11777
    artificial selection 10553
    genotype environment interaction 12918
  Vitis 5296
  Vitis vinifera 1069, 4162, 7294, 10788
  Zea mays 4836, 5983, 6898, 7950, 9960, 11494
    artificial selection 344, 3748, 7952-7954
    gene expression 1420
    genetic variance 3760
    heritability 3760
    heterosis 1111
    in vitro selection 6901
Dry matter
  Beta vulgaris, sugarbeet 10912
  Triticum aestivum, genetics 2487
Dryopteris filix-mas
  molecular genetics, phytochrome 11096
  polymerase chain reaction, phytochrome 11096
Duboisia hopwoodii, alkaloids 1050
Duboisia leichhardtii
  interspecific hybridization 2218
  restriction fragment length polymorphism 2218
Duboisia myoporoides
  alkaloids 1050
  interspecific hybridization 2218
  restriction fragment length polymorphism 2218
Duboisia* × *Cyphanthera, intergeneric hybridization 1050
Duboisia* × *Grammosolen
  alkaloids 1050
  intergeneric hybridization 1050
Duplicate genes (*see* Genetics)
Dupoa, taxonomy 9246
Dupontia* × *Poa, intergeneric hybridization 9246
Durio zibethinus, breeding 11268
Dwarf habit (*see* Height)
Dysaphis plantaginea, *Malus pumila* 3114
Dysoxylum, taxonomy 11015
Earias, *Gossypium barbadense* 4341
Earias vittella, *Abelmoschus esculentus* 727
Eccoilopus
  chloroplast genetics, evolution 7374
  restriction fragment length polymorphism, evolution 7374
Echeveria gibbiflora, sexual reproduction 2215
Echinacea purpurea, essential oils 13360-13361
Echinocereus coccineus
  flowers 1033
  sex 1033
Echinochloa, random amplified polymorphic DNA, evolution 12704
Echinochloa colonum
  herbicides 7989
  propanil 7989
  yield correlations 10333
Echinochloa* (×) *Oryza, protoplast fusion 11593
Echinomastus erectrocentrus
  fertility 7534
  flowering 7534
Echium pininana, natural selection, cold resistance 995
Ecology
  Malus pumila 11947
  molecular genetics 9990
  Trichomanes speciosum 1032
Economics
  breeding 8764
  Eucalyptus globulus, breeding 5524
  grasses, breeding 10394
  Lolium perenne, breeding 10394
  Oryza sativa, anther culture 6043
  Phaseolus vulgaris, seeds 12876
  random amplified polymorphic DNA 2341
  restriction fragment length polymorphism 2341
  Triticum aestivum, breeding 3582, 8876, 12480
  Triticum durum, breeding 12480
  Zea mays, forage 12652
Ecotypes 2406
  Arabidopsis thaliana, restriction fragment length polymorphism 2354
  Beta maritima 2038
  Beta vulgaris 2038
  Cocos nucifera 6386, 13154
  Dactylis glomerata 12784
  Festuca arundinacea 11639-11640
  Festuca pallescens 4923
  Lolium perenne 9253, 11626
  Origanum vulgare 2236
  Oryza sativa 440, 10381
  Panicum turgidum 10321
  Setaria italica 1490
  Trifolium repens 6087, 11674
  Vitis vinifera, restriction fragment length polymorphism 5295
Edible fungi
  breeders' rights 4488
  DNA 13400
  genetics, sexual reproduction 3437
  molecular genetics 13400
  protoplasts 4508
  sexual reproduction 12305
Eichhornia paniculata
  genetics
    androecium 9909
    heterostyly 9909

Eichhornia paniculata cont.
- genetics *cont.*
  - self compatibility 9909
- incompatibility 4468
- outcrossing 4468
- pollen competition 4468

Ekmanochloa, taxonomy 6616

Elaeis, drought resistance 12069

Elaeis guineensis
- artificial selection 3222, 13146
- breeding 11268
  - history 12066
- embryo culture 854
- enzymes 6366
- *Fusarium oxysporum* 3224, 13149-13150
- genetic resources 6365
- genetics, chlorophyll 13148
- genotype environment interaction, yield components 1972
- height, history 4239
- hybrid seed production 9684
- interspecific hybridization 852, 13147
- lipids 8502
- oils 6366
- photosynthesis 3223
- pollination 9684
- proline 853
- restriction fragment length polymorphism 13147
- seed testing 3224
- stability 12068
- stress 853
- sucrose 853
- tissue culture 853, 6367, 12067
- yield components 12068
- yield correlations 3223

Elaeis oleifera
- interspecific hybridization 852, 13147
- restriction fragment length polymorphism 13147

Elaeocarpus, taxonomy 11017

Eldana saccharina
- *Saccharum* 5424
- *Saccharum officinarum* 13180-13181

Electrical properties
- *Hordeum vulgare* 6736
- *Lolium perenne* 11278
- *Phleum pratense* 11278
- *Secale cereale* 6736, 11278
- *Trifolium pratense* 11278
- *Triticum aestivum* 6736, 11278

Electromagnetic radiation, *Cyamopsis tetragonoloba* 3991

Elettaria cardamomum
- tissue culture 12297
- yield correlations 6610

Eleusine
- apomixis 4931
- gene dosage
  - isocitrate dehydrogenase 3791
  - phosphogluconate dehydrogenase (decarboxylating) 3791
- gene expression
  - isocitrate dehydrogenase 3791
  - phosphogluconate dehydrogenase (decarboxylating) 3791
- sexual reproduction 4931

Eleusine coracana
- amylases 2431
- drought resistance 11542
- ethyl methanesulfonate 10332
- gamma radiation 10332
- genetic resources 7988
- growth period 6962
- harvest index 381
- photoperiodism 6962
- *Pyricularia* 380
- somaclonal variation, regenerative ability 10332
- stress 6962
- tissue culture 10332
- yield correlations 380-381
- varieties
  - FMV1 6009
  - SDEV87001 9193

Eleusine indica, herbicides 12703

Eleutheroglossum × Ceratobium, intergeneric hybridization 13376

Eleutheroglossum × Phalaenanthe, intergeneric hybridization 13376

Ellagic acid, *Rubus idaeus* 9593

Elongation factors
- *Hordeum vulgare*
  - gene location 272
  - molecular genetics 272
  - nucleotide sequences 8951
- *Oryza sativa,* nucleotide sequences 12720

Eltroplectris rossii, taxonomy 8716

Elymus (*see also Agropyron; Leymus; Psathyrostachys)*
- barley yellow dwarf luteovirus 2442, 11624
- chromosome pairing 3885, 4927, 7033, 9259, 10404
- *Diuraphis noxia* 8873
- *Erysiphe graminis* 11624
- genomes 3886, 4927, 7033, 9259
- interspecific hybridization 3885-3886, 4927, 7033, 9259, 10404
- prolamins 7754
- seeds 7754
- *Sphenophorus parvulus* 4928
- taxonomy 4927, 8080, 10404

Elymus akmolinensis, chromosome morphology 7034

Elymus cacuminus
- chromosome pairing 8079
- genomes 8079
- interspecific hybridization 8079
- taxonomy 8079

Elymus caucasicus
- chromosome pairing 4927
- genomes 4927
- interspecific hybridization 4927
- taxonomy 4927

Elymus ciliaris
- genomes 10405
- glutelins 10405
- prolamins 10405

Elymus curvifolius
- chromosome pairing 2802
- genomes 2802
- interspecific hybridization 2802

Elymus dahuricus
- genomes 10405
- glutelins 10405
- prolamins 10405

Elymus elongatus
- chromosome pairing 2802
- chromosome translocation 7035
  - *Puccinia graminis* 8940
  - *Puccinia recondita* 8940
- gene expression, salinity 2523
- gene location
  - flooding 3888
  - salinity 8081
- gene mapping 7035
  - abscisic acid 7031
- genomes 2802
- interspecific hybridization 2802
- nucleotide sequences 7032, 7035
  - stress 9258

Elymus farctus
- chromosome pairing 2802
- chromosome substitution 2472
- genomes 2802
- interspecific hybridization 2802
- random amplified polymorphic DNA 2472

Elymus geniculata
- chromosome pairing 2802
- genomes 2802
- interspecific hybridization 2802

Elymus giganteus, *Gibberella zeae* 242

Elymus glaucissimus
- chromosome pairing 7033
- genomes 7033
- interspecific hybridization 7033

Elymus hispidus
- chloroplast genetics 3594
- chromosome banding 8076
- chromosome translocation, barley yellow dwarf luteovirus 3889
- combining ability
  - digestibility 9261
  - quality 9261
- heritability
  - digestibility 9261
  - quality 9261
- isoenzymes 1287
- mitochondrial genetics 3594

Elymus karataviensis, chromosome morphology 7034

Elymus mollis, varieties, Benson 9257

Elymus novae-angliae
- interspecific hybridization 10406
- taxonomy 10406

Elymus parviglumis
- chromosome pairing 4927
- genomes 4927
- interspecific hybridization 4927
- taxonomy 4927

Elymus patagonicus
- chromosome pairing 7033
- genomes 7033
- interspecific hybridization 7033

Elymus pungens, genetic variation, isoenzymes 1633

Elymus rectisetus, genetics, apomixis 1213

Elymus repens
- genetic variation, isoenzymes 1633
- genetics 7743
- herbicides 3890, 8082
- primisulfuron 3890

Elymus retroflexus
- chromosome pairing 8079
- genomes 8079
- interspecific hybridization 8079
- taxonomy 8079

Elymus semicostatus
- chromosome pairing 3885
- interspecific hybridization 3885
- taxonomy 8080

Elymus sibiricus
- genomes 10405
- glutelins 10405
- prolamins 10405

Elymus spicatus
- chromosome pairing 8079
- cold resistance 12797
- genomes 8079
- germination 12797
- inflorescences 1634
- interspecific hybridization 8079
- seedlings 12797
- taxonomy 8079

Elymus trachycaulus
- *Diuraphis noxia* 2803
- genetics
  - colour 10406
  - plant hairs 10406
  - spikelets 10406
  - stems 10406
  - waxes 10406
- interspecific hybridization 10406
- taxonomy 10406

Elymus tschimganicus
- chromosome pairing 7033
- genomes 7033
- interspecific hybridization 7033

Elymus × Hordelymus, intergeneric hybridization 12800

Elymus × Hordeum
- chromosome pairing 10169
- intergeneric hybridization 4926, 10169

Elymus × Leymus
- intergeneric hybridization 4926, 8077
- molecular genetics, genomes 8077

Elymus × Psathyrostachys
- intergeneric hybridization 8077
- molecular genetics, genomes 8077

Elymus × Secale, intergeneric hybridization 8873

Elymus × Triticum
- cell culture 3536
- chromosome addition 3536, 4688-4689, 5866
  - flooding 3888
  - isoenzymes 1287
- chromosome banding 12498
- chromosome morphology 6748
- chromosome pairing 3601, 4686
- chromosome substitution 2472
- chromosome translocation 12498
  - barley yellow dwarf luteovirus 3536
- colour 7796
- *Erysiphe graminis* 10133
- *Fusarium* 10133
- gene expression, salinity 2523
- gene location, isoenzymes 1293
- *Gibberella zeae* 242

- ***Elymus* × *Triticum*** *cont.*
  - intergeneric hybridization 170, 242, 1287, 1293, 2472, 2523, 3536, 3601, 3888, 4686, 4688-4689, 4727, 4926, 5861, 5866, 5892, 6748, 7755, 7796, 8873, 10083, 10133, 11357, 12498
  - *Leptosphaeria nodorum* 10133
  - photoperiodism 11357
  - *Puccinia recondita* 7796, 10133
  - random amplified polymorphic DNA 2472, 7755
  - reciprocal effects, compatibility 5861
  - salinity 4727, 5892, 11357
  - temperature 4686
- ***Elytrigia*** (*see also Elymus*)
- **Embryo culture** 111, 1144
  - *Allium* 633
  - *Arachis hypogaea* 4259, 10880, 12084
  - *Cajanus* 6211
  - *Cajanus cajan* 7135
  - *Cajanus* × *Rhynchosia* 6211
  - *Carya illinoinensis* 13118
  - *Cocos nucifera* 1975, 4240
  - *Cucumis melo* 714
  - *Cucurbita* 13038
  - *Dasypyrum* × *Triticum* 189
  - *Elaeis guineensis* 854
  - *Euonymus europaeus* 4397
  - *Festuca* × *Lolium* 2793, 11634
  - *Glycine max* 1241
  - *Guizotia abyssinica* 1997
  - *Gypsophila* 9868
  - *Helianthus annuus* 1241, 5342
  - *Hordeum murinum* 12597
  - *Hordeum vulgare* 10176
  - *Hordeum* × *Triticum* 5881
  - *Karwinskia humboldtiana* 8735
  - *Larix decidua* 6554-6555
  - *Larix leptolepis* 6554-6555
  - *Leucaena diversifolia* 4966
  - *Leucaena leucocephala* 4966
  - *Lilium* 13372
  - *Liriodendron chinense* 980
  - *Liriodendron tulipifera* 980
  - *Litchi chinensis* 13105
  - *Lycopersicon esculentum* 5179, 11236, 11881
  - *Lycopersicon peruvianum* 5179, 11881
  - *Malus hupehensis* 735
  - *Malus scheideckeri* 735
  - *Medicago* 1654
  - *Ocotea catarinensis* 6545
  - *Ornithogalum dubium* 11080
  - *Ornithogalum thyrsoides* 11080
  - *Oryza minuta* 6985
  - *Oryza sativa* 4890, 6985, 8028-8029, 10378, 12744
    - combining ability 1570
    - heritability 1570
  - *Paeonia lactiflora* 6571
  - *Phaseolus acutifolius* 11743
  - *Phaseolus vulgaris* 11743
  - *Phyllanthus* 13109
  - *Picea abies* 5595
  - *Pinus caribaea* 13303
  - *Pinus palustris* 5588
  - *Pinus wallichiana* 9817
  - *Pisum sativum*
    - abscisic acid 8191
    - growth regulators 8191
  - *Populus* 8602
  - *Prunus armeniaca* 6300
  - *Prunus avium* 749, 9586
  - *Prunus persica* 5261, 13057
    - growth regulators 8411
  - *Prunus salicina* 13057
  - *Pyrus communis* 8393
  - *Quercus acutissima* 8595
  - *Rosa* 11050
  - *Rosa hybrida* 8665
  - *Secale* × triticale 10211
  - *Secale* × *Triticum* 3703, 8995
  - *Sorghum* 6936
  - *Sorghum bicolor* 6935-6936
  - *Stenotaphrum secundatum* 6073
  - *Taxus baccata* 12228
  - *Taxus brevifolia* 12228
  - *Taxus cuspidata* 12228
  - *Theobroma cacao* 906
  - triticale 3703
- **Embryo culture** *cont.*
  - triticale × *Triticum* 5842
  - *Triticum aestivum* 225, 5881, 7740, 7770, 11334, 11336
  - *Triticum* × *Zea* 7740
  - *Tsuga heterophylla* 8655
  - *Vitis vinifera* 8428
    - seedlessness 12001
  - *Zea mays* 9083, 9125, 9128
- **Embryo sac**
  - *Arabidopsis thaliana* 11214
  - *Fagopyrum esculentum* 11236
  - mutations 3545
  - *Pennisetum glaucum* 9187, 11535
  - *Pennisetum squamulatum* 9187
  - *Prunus*, plums 3136
  - *Solanum demissum* 2965
  - *Solanum stoloniferum* 2965
  - *Tribolium* 8088
  - *Ullucus tuberosus* 10632
  - *Zea mays* 10251
- **Embryogenesis**
  - *Glycine max*
    - gene expression 7080
    - nucleotide sequences 7080
- **Embryology** 3549-3550
  - *Arabidopsis thaliana*
    - genetics 1163
    - molecular genetics 1162
    - mutations 1162-1163
  - *Arachis* 1979
  - *Arachis duranensis* 7359
  - *Arachis hypogaea* 7359
  - *Arachis stenosperma* 7359
  - *Eriobotrya japonica* 1896
  - gene expression 3551
  - *Hordeum vulgare*
    - gene expression 11378
    - nucleotide sequences 11378
  - *Limonium peregrinum* 9869
  - *Litchi chinensis* 10813
  - *Lycopersicon esculentum* 669
  - *Lycopersicon peruvianum* 669
  - *Oryza meyeriana* 9222
  - *Oryza officinalis* 9222
  - *Oryza rufipogon* 9222
  - *Oryza sativa* 9222
  - *Pisum fulvum* 3968
  - *Pisum sativum* 3968
  - *Solanum*, tuberous species 1782
  - *Triticum aestivum* 4692
- **Embryos** (*see* Plant embryos)
- **Empetraceae**
  - chloroplast genetics
    - ribulose-bisphosphate carboxylase 2403
    - taxonomy 2403
- ***Empoasca*** (*see also Amrasca*)
  - *Gossypium* 2099
- ***Empoasca fabae,*** *Acer rubrum* 13339
- ***Endocronartium harknessii***
  - *Pinus banksiana* 3360
  - *Pinus contorta* 2141, 9770
- **Endomitosis,** *Lycopersicon esculentum* 8329
- **Endonucleases,** *Nicotiana tabacum* 4298
- **Endopeptidases,** *Triticum aestivum,* linkage 5896
- **Endosperm**
  - *Glycine max* 8150
  - *Hordeum vulgare* 281, 6828
    - genetics 2605, 7847
    - linkage 1360
    - molecular genetics 12600
    - mutations 1366
  - *Juglans regia* 5335
  - *Leymus arenarius* 3887
  - molecular genetics 3566
  - *Oryza sativa*
    - genetics 12736
    - induced mutations 12736
  - *Solanum*, tuberous species 9460
  - *Sorghum bicolor* 358, 1484
  - *Triticum aestivum* 206, 3611, 4691
    - gene dosage 4716
    - gene expression 2483, 8900
    - gene location 2483
    - genetics 1297, 4716
    - mutations 1297, 2483
  - *Zea mays* 1436, 4834, 9059, 9133, 9137, 10217
    - artificial selection 1441, 7947
- **Endosperm** *cont.*
  - *Zea mays cont.*
    - combining ability 5977
    - gene dosage 12676
    - gene expression 3754, 9096
      - mutations 9084
    - gene location 7903, 9079, 9081, 9132
    - genetic engineering 7889
    - genetics 7922-7923, 9080, 9082, 9138, 10257
    - induced mutations 9067
    - modifiers 3754
    - molecular genetics 7922
    - mutations 1422, 1438-1441, 1444-1446, 5977, 7902, 7941, 9079-9080, 9082, 9156, 11460
    - polymerase chain reaction 9139
    - restriction fragment length polymorphism 7945, 9132
    - babycorn 3755
    - sweetcorn 4826
      - genetics 9108
      - mutations 9117
- **Energy resources**
  - *Helianthus tuberosus* 5137
  - *Salix* 11000
  - *Sorghum bicolor* 6940
- ***Enterolobium glaziovii,*** nomenclature 5576
- **Environment**
  - *Trifolium subterraneum* 481
  - *Triticum aestivum* 11294
- **Enzyme inhibitors**
  - cereals
    - gene location 11284
    - genetics 11284
    - polymorphism 11284
- **Enzymes**
  - *Agaricus bisporus,* molecular genetics 4503
  - *Arabidopsis thaliana,* molecular genetics 66
  - *Beta vulgaris,* sugarbeet, gene expression 8526
  - *Coprinus bilanatus,* induced mutations 4507
  - *Elaeis guineensis* 6366
  - genetics 10035
  - *Hordeum vulgare,* gene expression 1247
  - *Lycopersicon esculentum,* gene expression 10659
  - *Malus pumila* 5234
  - molecular genetics, books 12319
  - *Nicotiana suaveolens* 12142
  - *Nicotiana tabacum* 12142
  - *Picea abies*
    - genetics 3364
    - linkage 3364
  - *Picea orientalis*
    - genetic variation 3365
    - genetics 3365
    - linkage 3365
  - *Triticum aestivum*
    - gene expression 1247
    - induced mutations 8895
  - *Vitis vinifera*
    - gene expression 8429
    - nucleotide sequences 8429
  - *Zea mays* 6893
- **Epacridaceae**
  - chloroplast genetics
    - ribulose-bisphosphate carboxylase 2403
    - taxonomy 2403
- ***Ephedra***
  - alkaloids 1045
  - tissue culture 1045
- ***Ephestia kuehniella,*** *Triticum aestivum* 11368
- **Epidermis**
  - *Antirrhinum majus*
    - mutations 12261
    - nucleotide sequences 12261
  - *Sorghum bicolor,* induced mutations 6931
- ***Epilachna varivestis***
  - *Glycine max* 9378-9379
  - *Phaseolus vulgaris* 5039
- ***Epilobium***
  - molecular genetics
    - ribosomal DNA 13363
    - taxonomy 13363

- ***Epimedium latisepalum,*** taxonomy 6573
- ***Epimedium ogisui,*** taxonomy 6573
- ***Epipactis***
  - multivariate analysis, morphology 13380
  - taxonomy 13380
- ***Epiphyllum anguliger,*** interspecific hybridization 9904
- **Epistasis**
  - *Arabidopsis thaliana*
    - development 10020-10021
    - light 10020-10021
  - *Capsicum annuum, Phytophthora capsici* 8359
  - *Cucumis melo, Pseudoperonospora cubensis* 13030
  - *Glycine max*
    - flowering 12843
    - photoperiodism 12843
    - quantitative traits 11713
    - temperature 12843
  - *Lycopersicon esculentum*
    - quantitative traits 11891
    - salinity 11891
  - *Lycopersicon pimpinellifolium*
    - quantitative traits 11891
    - salinity 11891
  - *Secale cereale*
    - height 8982
    - yield components 8982
  - *Triticum aestivum*
    - glutenins 7775
    - quality 7775
  - *Zea mays*
    - inflorescences 12672
    - sex 12672
- ***Epitrimerus pyri***
  - *Cydonia oblonga* 5239
  - *Malus pumila* 5239
  - *Pyrus* 5239
- **Epoxide hydrolase**
  - *Arabidopsis thaliana*
    - gene expression 11205
    - genetic engineering 11205
    - nucleotide sequences 11205
  - *Solanum tuberosum*
    - gene expression 11800
    - genetic engineering 11800
    - nucleotide sequences 11800
- **EPTC**
  - *Zea mays* 352, 9168
    - genetics 1470
    - *in vitro* selection 1470
- ***Eragrostis***
  - apomixis 4931
  - habit 4933
  - internodes 4933
  - sexual reproduction 4931
- ***Eragrostis curvula***
  - apomixis 9270
  - breeding 9270
  - leaves 9270
- ***Eragrostis tef***
  - genetic resources 463
  - genetic variance, yield components 9272
  - heritability, yield components 9272
  - yield components 463
- ***Eremopyrum*** (*see Agropyron*)
- **Ergosterol,** *Brassica napus,* rape, *in vitro* selection 3209
- **Ergovaline,** *Festuca arundinacea,* genotype environment interaction 6068
- ***Erianthus***
  - chloroplast genetics, evolution 7374
  - restriction fragment length polymorphism, evolution 7374
  - *Ustilago scitaminea* 8521
- ***Erianthus arundinaceus,*** pollination 6439
- ***Erianthus* × *Saccharum***
  - intergeneric hybridization 6439-6440
  - isoenzymes 6440
  - pollination 6439
- ***Erica***
  - flowers 5618
  - pollination 5618
- ***Erica darleyensis***
  - genetic transformation 12231
  - tissue culture 12231
- ***Erica gracilis,*** *Cylindrocladium scoparium* 1069
- **Ericaceae**
  - chloroplast genetics
    - ribulose-bisphosphate carboxylase 2403
    - taxonomy 2403
  - genetic resources 4538
  - genetics
    - colour 12233
    - flowers 12233
    - leaves 12233
  - plant introduction 4538
- ***Eriobotrya japonica***
  - breeding 11954
  - embryology 1896
  - variety classification 7264
  - varieties 11954
    - Guangrong 7262
    - Shexian Dahongpao 7262
    - Zaozhong-6 8397
- ***Eriosoma lanigerum,*** *Malus pumila* 7259, 10727
- ***Eriostemon myoporoides***
  - interspecific hybridization 12234
  - tissue culture 12234
- ***Eriostemon verrucosus***
  - interspecific hybridization 12234
  - tissue culture 12234
- ***Eruca sativa*** (*see Eruca vesicaria*)
- ***Eruca vesicaria***
  - breeding 5406
  - nucleotide sequences 7371, 9694
  - restriction fragment length polymorphism 9694
  - reviews 5406
  - variety trials 7320
- ***Eruca* (×) *Brassica,*** protoplast fusion 7326
- **Erucic acid**
  - *Brassica alboglabra,* genetics 4219
  - *Brassica campestris*
    - genetics 4219
    - sarson, genetics 13133
  - *Brassica juncea* 5371
  - *Brassica napus*
    - rape 3190, 3205, 5374, 13141
      - artificial selection 3203
      - genetic engineering 5373
      - genetic variance 5370
  - *Crambe abyssinica,* genotype environment interaction 8508
- ***Erwinia***
  - *Brassica oleracea,* broccoli 8308
  - *Solanum,* tuberous species 11836
  - *Solanum tuberosum* 2986-2987, 11836
- ***Erwinia amylovora***
  - *Cotoneaster* 1069
  - *Malus pumila* 3114, 10727-10728
    - somaclonal variation 13052
  - *Pyracantha* 4405
  - *Pyrus communis* 5238
- ***Erwinia carotovora***
  - *Daucus carota* 3015
  - *Manihot esculenta* 9483
  - *Solanum,* tuberous species 8265
  - *Solanum brevidens* 2981, 8268, 11837
  - *Solanum tuberosum* 2980-2981, 4007, 5109, 5111, 8264-8266, 8268, 10593, 11837
    - gene expression 2979, 4005
    - genetic transformation 2979, 2983, 4005-4006, 6239
    - somaclonal variation 1792
- ***Erwinia chrysanthemi***
  - *Solanum,* tuberous species 8265
  - *Solanum brevidens* 8268
  - *Solanum tuberosum* 8265, 8268
- ***Erwinia salicis,*** *Salix,* artificial selection 8612
- ***Erwinia stewartii***
  - *Zea mays*
    - genetic variance 4838
    - heritability 4838
    - sweetcorn 2687
- ***Erysimum hedgeanum,*** nomenclature 6679
- ***Erysiphe,*** *Trifolium pratense* 4954
- ***Erysiphe betae,*** *Beta vulgaris,* sugarbeet 2041
- ***Erysiphe cichoracearum***
  - *Abelmoschus,* genetics 10713
  - *Abelmoschus esculentus,* genetics 10713
  - *Cucumis sativus* 3100
  - *Cucurbita moschata* 11922
- ***Erysiphe cichoracearum*** *cont.*
  - *Lactuca* 8314
  - *Nicotiana tabacum* 3296, 3300
  - *Sesamum indicum* 12099
- ***Erysiphe cruciferarum,*** *Brassica napus,* swedes, germplasm releases 620
- ***Erysiphe graminis***
  - *Aegilops* 7828
  - *Aegilops biuncialis* 7829
  - *Aegilops cylindrica* 7829
  - *Aegilops ovata* 7829
  - *Aegilops triaristata* 7829
  - *Aegilops triuncialis* 7829
  - *Aegilops* × *Triticum* 2535, 7796, 10133
    - genetics 2548
    - germplasm releases 10131
  - *Agropyron* 11624
  - *Avena sativa* 2440
    - genetics 5936
  - *Dasypyrum* × *Triticum* 12492
  - *Elymus* 11624
  - *Elymus* × *Triticum* 10133
  - *Hordeum* 11624
    - genomes 4659
  - *Hordeum bulbosum,* random amplified polymorphic DNA 2634
  - *Hordeum chilense* 289
  - *Hordeum spontaneum* 12628
  - *Hordeum vulgare* 2440, 2628, 2630-2633, 4776, 4779, 6738, 6850, 7856, 7858, 7861, 10192, 11292, 11396, 12627, 12629
    - artificial selection 7860
    - gene expression 290, 2629, 5923, 10190, 11394
    - gene location 12626
    - genetic transformation 2629
    - genetics 288, 1372, 2624, 2635-2637, 3682, 4775, 4777-4778, 5924, 6846-6849, 6851-6852, 7859, 10191, 12625
      - history 1371
    - induced mutations, history 1371
    - linkage 1361, 12624
    - molecular genetics 290, 5925-5926
    - random amplified polymorphic DNA 2634
    - restriction fragment length polymorphism 12625-12626
    - somaclonal variation 11385
  - *Hordeum* × *Triticum* 289
  - *Leymus* 11624
  - *Psathyrostachys* 11624
  - *Secale,* genomes 4659
  - *Secale cereale* 6870
    - chromosome translocation 8925
    - combining ability 6869, 7873
    - genetic variance 6869
    - heritability 6869
  - *Secale* × *Triticum*
    - chromosome addition 246
    - chromosome substitution 246
  - triticale, genomes 4659
  - Triticeae 3580, 6063
  - *Triticum,* genomes 4659
  - *Triticum aestivum* 240-241, 289, 1333, 2440, 2535, 2544-2546, 2561, 3656-3657, 6737-6738, 10133, 11358, 12571
    - chromosome translocation 8925
    - combining ability 11363
    - genetic transformation 4735
    - genetic variance 11363
    - genetics 247, 1257, 4736-4738, 6779, 8926, 10136-10137, 11362
    - germplasm releases 10131
    - heritability 8926, 10137
    - restriction fragment length polymorphism 2547
  - *Triticum dicoccum,* genetics 6783
  - *Triticum durum,* genetics 4738, 6783
  - *Triticum spelta* 11358, 12570
  - *Triticum sphaerococcum,* genetics 247
- ***Erysiphe orontii,*** *Sesamum indicum* 10893
- ***Erysiphe pisi***
  - *Pisum sativum*
    - artificial selection 6194
    - gene mapping 12902
    - linkage 12902
    - random amplified polymorphic DNA 12902

- ***Erysiphe pisi*** *cont.*
  - *Pisum sativum cont.*
    - restriction fragment length polymorphism 12902
- ***Erysiphe polygoni***
  - *Pisum sativum,* genetics 10526
  - *Vigna radiata* 5079, 6226
    - genetics 12923
    - restriction fragment length polymorphism 8231
- ***Erythrina***
  - leaves 9852
  - plant hairs 9852
  - taxonomy 9852, 12201
- ***Erythrina caffra***
  - gene expression, trypsin inhibitors 13335
  - genetic engineering, trypsin inhibitors 13335-13336
  - mutations, trypsin inhibitors 13336
- ***Erythrodes amazonica***
  - nomenclature 1029
  - taxonomy 1029
- ***Erythrodes steyermarkii***
  - nomenclature 1029
  - taxonomy 1029
- ***Erythronium albidum***
  - incompatibility 4443
  - interspecific hybridization 4443
  - pollination 4443
- ***Erythronium americanum***
  - incompatibility 4443
  - interspecific hybridization 4443
  - pollination 4443
- ***Erythronium grandiflorum***
  - outcrossing 4444
  - pollen competition 4444
  - pollination 4444
- ***Erythroxylum plowmanianum,*** taxonomy 5570
- ***Esenbeckia leiocarpa,*** genetic variation 4347
- **Essential oils**
  - *Achillea* 13394
  - *Allium sativum* 10637
    - artificial selection 11860
  - *Angelica archangelica* 12301
  - *Angelica sylvestris* 12301
  - *Artemisia* 13396
  - *Artemisia absinthium* 13396
  - *Artemisia annua* 13390
  - *Artemisia arborescens* 13396
  - *Artemisia judaica* 7556
  - *Carum carvi* 7552, 9933
  - *Chamomilla recutita* 13386
  - *Coleus forskohlii* 13387
  - *Echinacea purpurea* 13360-13361
  - *Eucalyptus camaldulensis* 9779
  - *Fragaria ananassa* 9594
  - *Juniperus davurica* 13398
  - *Mangifera foetida* 13104
  - *Mangifera odorata* 13104
  - *Mentha piperita* 1058
  - *Minthostachys andina* 9940
  - *Ocimum,* heterosis 2234
  - *Ocimum basilicum*
    - genetics 13395
    - genotype environment interaction 8742
  - *Origanum* 9934
  - *Origanum intercedens* 2237
  - *Origanum onites* 9934
  - *Origanum vulgare* 2236, 9934
  - *Pelargonium* 13397
    - genetic transformation 6563
  - *Piper nigrum* 13392
  - *Pogostemon cablin* 8746
  - *Rosmarinus eriocalyx* 9939
  - *Rosmarinus officinalis* 9939
  - *Rosmarinus tomentosus* 9939
  - *Thymus baeticus* 12291
  - *Thymus longicaulis* 9935
  - *Thymus pulegioides* 9932
  - *Thymus viciosoi* 9932
  - *Thymus vulgaris* 12299
  - *Thymus zygis* 9932
- **Esterases**
  - *Aegilops* 6776
  - *Aegilops peregrina*
    - natural selection 6815
    - polymorphism 6815
  - *Aegilops squarrosa,* genetic variation 7826
- **Esterases** *cont.*
  - *Agaricus bisporus,* linkage 5683
  - *Eustoma grandiflorum,* genetics 4424
  - *Glycine max* 4988
  - *Hordeum vulgare* 12602
    - gene mapping 7836
    - genetics 291, 1359, 2607
    - linkage 1360, 1362
    - restriction fragment length polymorphism 7836
  - *Medicago sativa* 6078
  - *Nicotiana suaveolens* 12142
  - *Nicotiana tabacum* 12142
  - *Panicum infestum,* genetics 367
  - *Panicum maximum,* genetics 367
  - *Panicum trichocladum,* genetics 367
  - *Pennisetum* 6005
  - *Pennisetum glaucum* 6001, 6005
    - genetic variation 7985
  - *Pisum sativum* 1738, 2908, 2917
  - *Prunus armeniaca* 3132
  - *Solanum tuberosum,* somaclonal variation 9466
  - *Triticum* 6776
  - *Triticum aestivum* 1302
    - gene location 12535
    - genetics 12535
  - *Tulipa,* genetic variation 13373
  - *Tulipa gesneriana* 4452
  - *Vigna mungo,* genetic markers 1765
  - *Vigna radiata,* genetic markers 1765
  - *Zea mays* 1419
    - somaclonal variation 9100
- **Ethephon**
  - *Helianthus annuus* 5385
  - triticale 4805-4806
- **Ethidium bromide,** *Triticum aestivum* 1288
- **Ethychlozate,** *Citrus maxima* 1914
- **Ethyl methanesulfonate**
  - *Apium graveolens* 6258
  - *Arabidopsis thaliana* 79, 81, 2361, 4594, 5783, 5788, 7636, 7643, 7646, 7652, 10014, 10018, 11211, 11215, 12422
  - *Avena sativa,* mutagens 5933
  - *Capsicum annuum* 7236, 11899
  - *Cicer arietinum* 6202, 7127
  - *Crotalaria juncea* 961
  - *Eleusine coracana* 10332
  - *Glycine max* 3948, 9354
  - *Gossypium hirsutum* 9739
  - *Hibiscus sabdariffa* 5514
  - *Hordeum vulgare* 278, 3576, 4755, 10168
  - *Lens culinaris* 562, 1743, 7121
  - *Lycopersicon esculentum* 7231, 8341, 11882
  - *Malus pumila* 10719
  - *Medicago* 2826
  - *Melilotus alba* 6090
  - *Musa* 6318
  - *Oryza sativa* 4893, 6971, 12734
  - *Pachyrhizus erosus* 1814
  - *Phaseolus vulgaris* 5038, 8179
  - *Pisum sativum* 5056-5057, 7116, 8192, 8195, 10519, 11752, 12898
  - *Secale cereale* 6731
  - *Solanum melongena* 5193
  - *Sorghum bicolor* 6931
  - *Trigonella foenum-graecum* 11690
  - triticale 3576, 6731, 8988-8989
  - *Triticum aestivum* 1288-1289, 2485, 3576, 6731, 11313
  - *Vicia faba* 6147-6148
  - *Vigna mungo* 1766-1767
  - *Vigna radiata* 1766
  - *Vigna sublobata* 1766
  - *Zea mays* 2683, 9067
- **Ethylene**
  - *Allium cepa* 9505
  - *Arabidopsis thaliana* 1164
    - gene expression 3512, 10031, 12414
    - molecular genetics 76, 3512
    - mutations 76, 12414
  - *Brassica* 836
  - *Cicer arietinum,* gene expression 9415
  - *Dianthus caryophyllus* 5639
    - gene expression 4425
    - molecular genetics 4425
  - *Lycopersicon esculentum*
    - gene expression 671
- **Ethylene** *cont.*
  - *Lycopersicon esculentum cont.*
    - genetic engineering 10663
    - mutations 10663
  - *Malus pumila* 4124
  - molecular genetics 1134, 3484
  - *Nicotiana tabacum,* gene expression 2054, 13234
  - *Oryza sativa* 1554, 2741
  - *Rubus* 10764
  - *Salix viminalis* 2121
  - *Triticum aestivum* 2545
- **Ethyleneimine**
  - *Glycine max* 10477
  - *Hordeum vulgare* 2590-2591
  - *Medicago* 2826
  - *Oryza sativa* 4893
  - *Pisum sativum* 10519
  - *Triticum aestivum* 10084
- ***N*-ethyl-*N*-nitrosourea**
  - *Hordeum vulgare* 4758, 4761
  - *Solanum tuberosum* 10582
  - *Triticum aestivum* 10084-10085
- ***Etiella zinckenella,*** *Glycine max* 10493
- ***Eublemma gayneri,*** *Sorghum bicolor* 12697
- ***Eucalyptus***
  - breeding 10992
    - books 7574
  - chloroplast genetics 9773
    - evolution 972
    - taxonomy 972
  - clonal selection 13253
  - cold resistance 5533
  - *Cylindrocladium clavatum* 10995
  - *Cylindrocladium scoparium* 10995
  - flowers 8852
  - genetic resources, books 7574
  - genetic variation 969
  - heterosis
    - germination 9777
    - seeds 9777
  - interspecific hybridization 5528, 5533, 13258
  - nomenclature 3342
  - pollination 8852
  - provenance trials 9782, 10992
  - taxonomy 2113, 10994
  - wood properties 13265
- ***Eucalyptus botryoides***
  - nucleotide sequences, cinnamyl-alcohol dehydrogenase 8589
  - taxonomy 2112
- ***Eucalyptus calophylla***
  - gynoecium 9783
  - natural selection, aluminium 9783
  - pollen 9783
- ***Eucalyptus camaldulensis***
  - cell culture 13263
  - essential oils 9779
  - flowers 5531
  - heritability, yield components 5526
  - interspecific hybridization 9777, 13263, 13265
  - provenance trials 5526
  - salinity 9781
  - taxonomy 5531
- ***Eucalyptus citriodora,*** restriction fragment length polymorphism 5527
- ***Eucalyptus cladocalyx,*** sexual reproduction 9774
- ***Eucalyptus diversicolor***
  - heritability
    - habit 9776
    - height 9776
- ***Eucalyptus dunnii,*** genetic transformation, rooting capacity 5530
- ***Eucalyptus foecunda,*** sexual reproduction 9774
- ***Eucalyptus globulus***
  - artificial selection, wood properties 9778
  - breeding, economics 5524
  - cold resistance 5533
  - drought resistance 5532
  - interspecific hybridization 5533
- ***Eucalyptus grandis***
  - cell culture 13263
  - cold resistance 9782
  - genetic transformation, rooting capacity 5530
  - interspecific hybridization 13263, 13265
  - provenance trials 9782

Eucalyptus grandis *cont.*
  random amplified polymorphic DNA 13261
  restriction fragment length polymorphism 5527
  tissue culture 7442, 10993
  wood properties 8590
Eucalyptus gunnii
  cold resistance 7441, 9780
  genetic transformation 7440
  nucleotide sequences
    caffeic acid *O*-methyltransferase 12184
    cinnamyl-alcohol dehydrogenase 8588
  protoplasts 7441, 9780
  tissue culture, cryopreservation 6534
Eucalyptus leucoxylon
  male sterility 5529
  sexual reproduction 5529
Eucalyptus marginata
  heritability, *Phytophthora cinnamomi* 13267
  Phytophthora cinnamomi 5534
Eucalyptus microtheca, *in vitro* selection, salinity 13266
Eucalyptus nitens
  genetic transformation, rooting capacity 5530
  provenance trials 5525
Eucalyptus regnans, pulping 13264
Eucalyptus saligna, taxonomy 2112
Eucalyptus serraensis, taxonomy 8591
Eucalyptus spathulata, sexual reproduction 9774
Eucalyptus tereticornis
  artificial selection 9772
  flowers 5531
  interspecific hybridization 9777, 13265
  pollen germination 9775
  taxonomy 5531
Eucalyptus urophylla
  genetic variation, isoenzymes 13262
  interspecific hybridization 13265
  outcrossing, isoenzymes 13262
  restriction fragment length polymorphism 5527
Eucalyptus verrucosa, taxonomy 8591
Eucalyptus victoriana, taxonomy 8591
Euchlaena *(see Zea)*
Eugenia *(see also Syzygium)*
Eugenia gongylocarpa, taxonomy 13288
Euonymus europaeus, embryo culture 4397
Euonymus nana, genetic resources 5612
Euphorbia, taxonomy 2152, 11036
Euphoria *(see Dimocarpus)*
European Brewery Convention, reports 6622
Eurya japonica, genetic variation, isoenzymes 13283
Eustoma grandiflorum
  gene expression, flavonoids 5632
  genetics
    diaphorase 4424
    esterases 4424
    glucose-6-phosphate isomerase 4424
    isoenzymes 4424
  heterosis
    growth period 11065
    leaves 11065
    stems 11065
Eutectona machaeralis, *Tectona grandis* 12204
Euterpe edulis
  breeding 12992
  interspecific hybridization 12992
Euterpe oleracea
  breeding 12992
  interspecific hybridization 12992
Eutrema wasabi
  cryopreservation 9534
  tissue culture 9534
Everbearing habit, *Fragaria ananassa* 6308
Evolution 126, 1223, 6697, 6712, 6717, 7679, 8854, 11261-11262
  alcohol dehydrogenase 4643
  angiosperms 7677
    chloroplast genetics 2398-2400
    mathematics 12457-12458
    mitochondrial genetics 9977
    molecular genetics 3561-3562
  Antirrhinum majus, flowers 7520
Evolution *cont.*
  Arabidopsis thaliana
    flowers 7520
    ribonucleases 4582
    senescence 4582
  Arachis 13161
  Arecaceae 8616
  Asteridae, chloroplast genetics 2402
  Astragalus
    molecular genetics 3937
    polymerase chain reaction 3937
  Avena 4791, 6862
  Avena sativa, restriction fragment length polymorphism 6861
  Bambuseae 1063
  Beta 6460
    molecular genetics 7381
  Betulaceae, chloroplast genetics 3339-3340
  Brachypodium distachyon, molecular genetics 6735
  Brassica 3196
  Bromus inermis, molecular genetics 6735
  Camellia, anthocyanins 11044
  Castanea sativa, chloroplast genetics 3184
  catalase 8857
  cereals
    chloroplast genetics 157
    molecular genetics 5840
  Chenopodium 7016
  chlorophyll 11252
  chlorophyll *a/b* binding protein 8860
  chloroplast genetics 11257
  Citrus 805, 10810
  Cocos nucifera 856
  Compositae
    chloroplast genetics 2404
    mathematics 125
  computer programming 6710
  Crassulaceae 8728
  crops 11240
    bibliographies 7676
  Cupressaceae, chloroplast genetics 5610
  Cypripedium 9890
  Derwentia 8661
  Detzneria 8661
  Dioscorea 8292
  diploidy 4630, 6705
  diseases 11168
  DNA 5819
  Eccoilopus
    chloroplast genetics 7374
    restriction fragment length polymorphism 7374
  Echinochloa, random amplified polymorphic DNA 12704
  Erianthus
    chloroplast genetics 7374
    restriction fragment length polymorphism 7374
  Eucalyptus, chloroplast genetics 972
  Fagopyrum esculentum 11615
  Fagopyrum tataricum 449
  Fagus, nucleotide sequences 8622
  fatty oil plants, chloroplast genetics 3188
  fertilization 5803
  Festuca
    chloroplast genetics 10401
    restriction fragment length polymorphism 12793
  flowers 6714, 11245
  gene expression 5833, 11243
  genetic distance 1222
  Gentianaceae 8687
  Geraniaceae, chloroplast genetics 3368
  Gnetales, mathematics 12457
  Gnetum, molecular genetics 3561
  Gossypium 10978
  Gossypium herbaceum, transposable elements 4320
  Gossypium hirsutum 949
    transposable elements 4320
  Gossypium raimondii, transposable elements 4320
  Gossypium tomentosum, molecular genetics 950
  Gramineae 6715
    inflorescences 3899
  grasses 1647
    chloroplast genetics 452, 11623
Evolution *cont.*
  grasses *cont.*
    restriction fragment length polymorphism 11623
  gymnosperms, molecular genetics 3561
  haploidy 4630
  Hebe 8661
  Helianthus neglectus, chloroplast genetics 6718
  Helianthus petiolaris, chloroplast genetics 6718
  hybridization, reviews 100
  inbreeding 1200
  interference 8827
  Iris, random amplified polymorphic DNA 8704
  Iris nelsonii, random amplified polymorphic DNA 8704
  Lamprothyrsus, apomixis 469
  Leersia oryzoides, molecular genetics 1645
  Leersia virginica, molecular genetics 1645
  Leguminosae, mitochondrial genetics 9977
  Lens culinaris, chloroplast genetics 7125
  Lens nigricans, chloroplast genetics 7125
  Lolium perenne, restriction fragment length polymorphism 12793
  Lotus, random amplified polymorphic DNA 11688
  Lotus corniculatus, random amplified polymorphic DNA 11688
  Luziola bahiensis, molecular genetics 1645
  Luziola fluitans, molecular genetics 1645
  Manihot
    chloroplast genetics 3021
    restriction fragment length polymorphism 3021
  mathematics 125, 127, 1224, 2394, 5821-5825, 6702, 6714, 8856, 8859, 11250
  Melocanna 1063
  Miscanthus
    chloroplast genetics 7374
    restriction fragment length polymorphism 7374
  mitochondrial genetics 2346, 9976, 10232
  molecular genetics 113, 1221, 5819, 5825, 6711, 11251, 11256, 12455-12456
    ribozymes 8805
    statistics 3340
  morphology 11232, 11254
  multivariate analysis 2396-2397
  Narenga
    chloroplast genetics 7374
    restriction fragment length polymorphism 7374
  Nicotiana tabacum, chloroplast genetics 11257
  nitrogen fixation 124
  nodulation 124
  Nothofagus 2123, 11019
    nucleotide sequences 8622
  nucleotide sequences 4642, 5816-5818, 5820, 6710, 7675, 8847, 8855, 10048-10049, 11260
    mathematics 8858, 11258-11259
  oleosins 13294
  Olyra latifolia, molecular genetics 1645
  Onagraceae, chloroplast genetics 3369
  Oryza, transposable elements 12726
  Oryza rufipogon 11544
  Oryza sativa 2753, 3842, 11544, 11600
    molecular genetics 6735
  outcrossing 1200
    mathematics 6696
  Palmae 5567
  Parahebe 8661
  Pennisetum glaucum 1505
  Penstemon 5640
  pests 11168
  Phaseolus coccineus, chloroplast genetics 12879
  Phaseolus polyanthus 8177
  Phaseolus vulgaris, chloroplast genetics 12879
  phosphoenolpyruvate carboxylase 11183

- **Evolution** *cont.*
  - photosynthesis 8860
  - *Phyllanthus* 13109
  - *Picea* 2142
    - chloroplast genetics 4377
  - *Picea asperata* 2142
  - *Pinus,* chloroplast genetics 9819
  - *Pisum sativum,* development 12895
  - plants, books 2268
  - *Poa* 4913
  - pollen 5803
  - polymorphism 8829
  - proteins 12454
  - *Prunus,* cherries 3140
  - *Quercus petraea,* chloroplast genetics 8596
  - *Quercus robur,* chloroplast genetics 8596
  - recombination 6689, 12426
  - reviews 11253, 11255
  - *Rhododendron* 13340
  - ribosomal DNA 4641
  - ribosomal RNA 11254
  - Saccharinae
    - chloroplast genetics 13178
    - mitochondrial genetics 13178
    - restriction fragment length polymorphism 13178
  - *Saccharum*
    - chloroplast genetics 7374
    - restriction fragment length polymorphism 7374
  - *Saccharum officinarum*
    - chloroplast genetics 13178
    - mitochondrial genetics 13178
    - restriction fragment length polymorphism 13178
  - Saxifragaceae 8728
    - chloroplast genetics 3398
  - *Sclerostachya*
    - chloroplast genetics 7374
    - restriction fragment length polymorphism 7374
  - self pollination, mathematics 6696
  - senescence, reviews 8861
  - sex 6689, 6704-6705
  - sexual reproduction 12443
  - *Solanum*
    - restriction fragment length polymorphism 8256
    - reviews 11830
  - *Solanum nigrum* 5664
  - *Solanum tuberosum* 1793, 11829
    - mitochondrial genetics 9976
  - *Sorghum bicolor,* molecular genetics 6735
  - statistics 12459
  - stress 30
  - symbiosis 4640
  - *Theobroma cacao*
    - chloroplast genetics 8537
    - mitochondrial genetics 8537
    - restriction fragment length polymorphism 8537, 9714
  - transposable elements 2318
  - Triticeae, molecular genetics 6735
  - *Vicia*
    - chloroplast genetics 9383
    - restriction fragment length polymorphism 9383
  - *Vicia faba* 4996
    - chloroplast genetics 9383
    - restriction fragment length polymorphism 9383
  - *Vigna glabrescens* 1772
  - *Vitex* 2227
  - *Zea* 7948
    - alcohol dehydrogenase 4835
  - *Zea mays* 3756, 5833, 7948, 10281, 11477-11479
    - inflorescences 10263
  - *Zea parviglumis* 3756
  - Zingiberales, chloroplast genetics 2401
  - *Zizania aquatica,* molecular genetics 1645
  - *Zizania texana,* molecular genetics 1645
- ***Exacum affine,*** tissue culture 3395
- **Experimental design** 3460, 5855, 11156
  - *Acacia auriculiformis* 13277
  - *Brassica napus,* swedes 10616
  - cereals 1251
  - *Cocos nucifera,* reviews 6374
- **Experimental design** *cont.*
  - forest trees 5516, 13255
    - breeding 7434
    - computer programming 13256
    - seed production 7434, 13256
  - *Glycine max* 10451
  - *Gossypium* 6509
  - *Hordeum vulgare* 1251, 2422
  - linkage, quantitative traits 7665
  - *Linum usitatissimum,* flax 955
  - *Phaseolus vulgaris* 11737
  - *Saccharum officinarum* 8509
  - *Solanum tuberosum* 2943
  - *Sorghum bicolor* 6914
  - *Triticum aestivum* 1251, 2422, 2444, 4668
    - *Puccinia striiformis* 3662
  - *Triticum durum* 1251
  - variety trials 8775
  - *Zea mays* 305, 2667, 11418
- **Extensin**
  - *Nicotiana plumbaginifolia*
    - gene expression 12135
    - genetic engineering 4313
    - molecular genetics 12135
  - *Nicotiana tabacum*
    - gene expression 4291, 4313
    - genetic engineering 4291
    - nucleotide sequences 4291
  - *Zea mays,* gene expression 3711
- **Extinction** 2395
- ***Fagopyrum cymosum***
  - interspecific hybridization 3866
  - isoenzymes 3866
- ***Fagopyrum esculentum***
  - anther culture 6054
  - embryo sac 11236
  - evolution 11615
  - genetic variation, isoenzymes 11614-11615
  - haploidy 6054
  - interspecific hybridization 3866
  - isoenzymes 3866
  - polyploidy 1621, 2779
  - quality 7013
  - random amplified polymorphic DNA 3865
  - seeds 7013
  - selenium 12774
  - tannins 1621
  - yield components 2779
- ***Fagopyrum tataricum***
  - evolution 449
  - random amplified polymorphic DNA 3865
  - seeds 449
  - selenium 12774
  - tannins 1621
- ***Fagus***
  - nucleotide sequences
    - evolution 8622
    - ribulose-bisphosphate carboxylase 8622
- ***Fagus sylvatica***
  - air pollution 13269
  - genetic variation, isoenzymes 8597, 13269
  - genetics
    - isoenzymes 3343
    - phosphogluconate dehydrogenase 3343
  - heterozygosity, height 9786
  - population genetics 9785
  - restriction fragment length polymorphism 8587
- ***Faidherbia albida***
  - genetic variation, isoenzymes 5560, 9802
  - outcrossing 5560
  - provenance trials 12193
  - tissue culture 7452
- **Farm inputs**
  - *Hordeum vulgare* 4769, 10182, 12585
  - *Triticum aestivum* 12552
- **Farmers' rights** 24, 2300, 6628
- **Fasciation**
  - *Cicer arietinum*
    - genetics 3974
    - mutations 3974
  - *Glycine max*
    - genetics 9346-9347
    - germplasm releases 9346-9347
- **Fasciation** *cont.*
  - *Lens culinaris*
    - genetics 562
    - induced mutations 562
- **Fatty acids**
  - *Arabidopsis thaliana,* induced mutations 7652
  - *Arachis hypogaea* 863, 7362-7364
  - *Avena sativa* 10205
  - *Brassica campestris,* turnip rape 13139
  - *Brassica juncea* 5371
  - *Brassica napus*
    - rape 4222
      - genetic engineering 5373, 6348
  - *Carthamus tinctorius,* genetics 3221
  - *Carya illinoinensis* 9650
  - *Cucumis sativus* 721
  - fatty oil plants 5342
    - genetic engineering 8464
  - *Glycine max* 2864
    - induced mutations 9354
  - *Gossypium* 952, 7417
  - *Helianthus annuus* 5342, 5389
  - *Lavandula* 9941
  - *Lens culinaris* 12907
  - *Linum usitatissimum,* linseed 5342
  - *Oenothera biennis,* heritability 8507
  - *Olea europaea* 1978, 10874
  - *Quercus agrifolia* 2116
  - *Quercus wislizenii* 2116
  - *Sesamum alatum* 13175
  - *Sesamum angustifolium* 13175
  - *Sesamum indicum* 6430, 13175
  - *Sesamum radiatum* 13175
  - *Sinapis alba*
    - genetic variance 3214
    - heritability 3214
    - heterosis 3214
  - *Tripsacum dactyloides* 11516
  - *Vitis* 1908
  - *Vitis vinifera* 1908
  - *Zea mays, in vitro* selection 9078
- **Fatty oil plants**
  - biotechnology 3187, 13121
  - breeding 3186, 12027
    - books 5706
    - reviews 1927
  - chloroplast genetics
    - evolution 3188
    - ribulose-bisphosphate carboxylase 3188
    - taxonomy 3188
  - cold resistance, reviews 5376
  - fatty acids 5342
  - genetic engineering 3187
    - fatty acids 8464
    - oils 9658
  - genetic resources 2410
  - genetic transformation
    - male sterility 2386, 11242
    - quality 13120
  - induced mutations, oils 9658
  - molecular genetics 13121
  - oleosins 6339
  - quality 12027
  - salinity, reviews 5375
  - variety trials, reports 139
- **Fatuoids**
  - *Avena fatua* 1378
  - *Avena sativa* 1378
- ***Feijoa*** (*see Acca*)
- **Female fertility**
  - *Asphodelus albus* 3418
  - *Festuca × Lolium* 11634
  - *Oryza sativa,* genetics 2743
  - *Pinus sylvestris* 5582
  - *Silene acaulis* 13355
- **Fenridazon-potassium,** *Triticum aestivum* 204
- **Fenthion**
  - *Lycopersicon esculentum*
    - gene expression 10677
    - mutations 10677
- **Ferredoxin**
  - *Nicotiana tabacum*
    - gene expression 13210
    - genetic transformation 13210
  - *Pisum sativum*
    - gene expression 13210
    - genetic engineering 13210

Ferredoxin-NADP$^+$ reductase, *Oryza sativa,* nucleotide sequences 10351
Ferredoxin-NADP$^+$oxidoreductase, *Raphanus sativus,* immunology 1811
Ferric leghaemoglobin reductase
  Glycine max
    gene expression 8146
    molecular genetics 8146
Ferritin
  Glycine max, gene expression 6140
  Vigna unguiculata
    nucleotide sequences 8217
    polymerase chain reaction 8217
Ferrochelatase
  Cucumis sativus, nucleotide sequences 11381
  Hordeum vulgare, nucleotide sequences 11381
Fertility
  Aerides odoratum 8710
  Arabidopsis thaliana
    genetic engineering 5363
    mutations 3515
  Arachis hypogaea 859, 865
  Banksia menziesii 7502
  Banksia spinulosa 7501
  Bouteloua rigidiseta 10414
  Brassica alboglabra 12036
  Brassica campestris, turnips 619
  Brassica carinata 10838
  Brassica napus
    rape 10838
      gene expression 5363
      genetic transformation 5363
  Brassica tournefortii 12036
  Citrus 799
  Citrus reticulata 794
  Citrus sinensis 794
  Dendrobium 13376
  Dendrobium aphyllum 8710
  Digitaria eriantha, artificial selection 462
  Echinomastus erectrocentrus 7534
  Hordeum vulgare 4757
  Lens culinaris 7122
  Lythrum 13357
  Oryza sativa 9212
    genetic markers 3815
    induced mutations 12760
    restriction fragment length polymorphism 3815
  Pennisetum flaccidum 6958
  Pennisetum mezianum 6958
  Phaius tankervilleae 8710
  Pinus sylvestris 5582
  Prunus persica 4142
  Raphanus raphanistrum, paternal effects 10630
  Saccharum officinarum 5413
  Scabiosa columbaria 13356
  Secale cereale, chromosome translocation 8889
  Secale × Triticum 299
  Solanum tuberosum 8249
  Spathoglottis plicata 8710
  triticale 299
  Triticum aestivum, chromosome translocation 8889
  Ullucus tuberosus 10632
Fertilization 1184, 1210, 3548, 6698
(*see also* Selective fertilization)
  Brassica juncea 1944, 8474
  Brassica napus 8474
  Brassica × Sinapis 828
  evolution 5803
  Hordeum vulgare 10175
  mathematics 6699-6700
  molecular genetics 1195
  Oryza sativa 1544
  Prunus persica 1898
  Raphanus sativus 1810, 1944
  Santalum album 9937
  Silene pratensis 2188
  Zea mays 1211, 1417, 2680, 2686, 3742, 4825, 6889
Fertilizers (*see* Nutrients)
Ferulic acid, *Zea mays* 7957
Festuca
  accessory chromosomes 11635
  breeding 2797, 11632
  chemotaxonomy 1632
  chloroplast genetics, evolution 10401
Festuca *cont.*
  chromosome number 11635
  genetic resources 2797
  isoenzymes 1632, 10402
  nomenclature 4924
  plant hairs 10402
  polyploidy 1632
  restriction fragment length polymorphism, evolution 12793
  taxonomy 7029-7030, 10402
  tissue culture 11641
  wide hybridization 2797
Festuca arundinacea
  Acremonium 2788, 6069
  breeding 2798, 11633, 11639
  carbon 1631
  chitinase 11646
  chromosome pairing 459
  crop mixtures 11644
  cutting 11643, 11645
  development 7028
  DNA 7028
  ecotypes 11639-11640
  genotype environment interaction
    Acremonium coenophialum 6068
    ergovaline 6068
  heritability
    digestibility 9256
    quality 9256
  Medicago sativa, crop mixtures 2832
  nitrogen 11645
  nutrients 11645
  nutritive value 11645
  persistence 11643
  photosynthesis 1631
  Puccinia graminis 3883
  restriction fragment length polymorphism 7027
  Rhizoctonia solani 8074
  soil water 11643
  stability 11643
  synaptonemal complex 459
  temperature 7028
  tissue culture 11641
  variety classification 9255
  water balance 1631
  yield correlations 11640
  varieties
    AC Graze 2799
    Elfina 4922
    Georgia-5 10400
    Hubbard-87 9857
    Shenandoah 11052
Festuca gigantea
  chromosome pairing 459
  synaptonemal complex 459
Festuca hyperborea
  isoenzymes 10402
  plant hairs 10402
  taxonomy 10402
Festuca longifolia
  drought resistance 12792
  soil types 12792
  varieties, Gabi 12792
Festuca mairei, tissue culture 11641
Festuca nigrescens
  varieties
    Jamestown II 1630
    Longfellow 11055
Festuca ovina, taxonomy 2800
Festuca pallescens, ecotypes 4923
Festuca paradoxa, taxonomy 3882
Festuca pratensis
  Acremonium 6069
  artificial selection
    cold resistance 3870, 11619
    Fusarium roseum 11619
    Sclerotinia borealis 11619
    Typhula ishikariensis 11619, 12782
  calcium 11642
  crop mixtures 11638, 11644
  cutting 11643
  cytoplasmic male sterility 460
  fungi 11647
  fungicides 7018
  genetic distance, isoenzymes 3878
  genetic variation, isoenzymes 3878
  in vitro selection
    Cochliobolus sativus 12795
    Pyrenophora 12795
  magnesium 11642
Festuca pratensis *cont.*
  nitrates 11642
  nitrogen 11636
  nutrients 11636
  persistence 11637, 11643
  polyploidy 2785, 11636
  potassium 11642
  Puccinia coronata 2785, 2801
  Pyrenophora dictyoides 11647
  quintozene 7018
  silicon 11642
  snow moulds 7018
  soil types 11642
  soil water 11643
  stability 11643
  Typhula ishikariensis 7020
  varieties, Arni 2781
Festuca rivas-martinezii, taxonomy 12794
Festuca rubra
  cutting 11643
  genetic transformation, phosphinothricin acetyltransferase 8073
  nitrogen 7019
  nutrients 7019
  persistence 11643
  protoplasts 8073
  soil water 11643
  stability 11643
  stress 7019
  taxonomy 2800
  variety trials 11622
Festuca subverticillata, taxonomy 3882
Festuca × ***Lolium***
  Acremonium 2788
  aneuploidy 11634
  chromosome pairing 459
  cytoplasmic inheritance 3875
  drought resistance 3880
  embryo culture 2793, 11634
  female fertility 11634
  intergeneric hybridization 459, 2785, 2788, 2793, 2797, 3875, 3880, 11634, 12787
  polyploidy 2793
  Puccinia coronata 2785
  synaptonemal complex 459
  tissue culture 2793
Festuca (×) ***Lolium,*** protoplast fusion 12786
Festuca × ***Vulpia***
  chromosome morphology 3881
  intergeneric hybridization 3881
Fibre
  Avena sativa 11286
  Hordeum vulgare 11286
  Phaseolus vulgaris 6164
  Saccharum officinarum 2015
  Solanum tuberosum, genotype environment interaction 11826
Fibres
  Asclepias speciosa 7429
  Asclepias syriaca 7429
  Gossypium 9744
Ficus carica
  tissue culture 5307
  variety trials 9612
Ficus opposita, nomenclature 12005
Ficus platypoda, nomenclature 12005
Finland, Foundation for Forest Tree Breeding, reports 6530-6533, 6551, 7564
Fire effects
  Acacia auriculiformis 9796
  Cynodon dactylon 4929
Flaveria pringlei
  gene expression, translocators 4816
  genetic engineering, translocators 4816
  nucleotide sequences
    glycine dehydrogenase (decarboxylating) 9865
    translocators 4816
Flaveria trinervia
  gene expression, translocators 4816
  genetic engineering, translocators 4816
  nucleotide sequences, translocators 4816
Flavones, *Salix* 7449
Flavonoid 3′,5′-hydroxylase
  Petunia hybrida 8663
    gene expression 4440
    nucleotide sequences 4440
  Rosa, molecular genetics 8663
Flavonoids
  Achillea millefolium 4479

Flavonoids *cont.*
- *Antirrhinum majus,* gene expression 4435
- *Coffea* 3275
- *Cynara scolymus* 12991
- *Diplotaxis,* multivariate analysis 13176
- *Eustoma grandiflorum,* gene expression 5632
- genetic engineering 1237
- genetics 1237
- *Glycyrrhiza pallidiflora* 8737
- *Gratiola officinalis* 13385
- *Lathyrus* 6102
- *Nicotiana tabacum,* gene expression 4435
- *Olea europaea* 7356
- *Petunia,* molecular genetics 2198
- *Petunia hybrida*
  - gene expression 2197
  - genetic engineering, reviews 1019
  - genetic transformation 4441
- *Scabiosa argentea* 9877
- *Scabiosa tenuis* 9877
- *Sideritis* 2228
- *Solanum melongena,* gene expression 4077
- *Tagetes laxa* 5642
- *Tagetes multiflora* 5642
- *Tradescantia* 2194
- *Vitis vinifera*
  - gene expression 8429
  - nucleotide sequences 8429
- *Zea mays*
  - gene expression 9028
  - genetics 10262
  - molecular genetics 12669

Flavonol glycosides, *Glycine max* 9366

Flavonol synthase
- *Petunia hybrida*
  - gene expression 4437
  - nucleotide sequences 4437

Flavonols
- *Lathyrus annuus* 7511
- *Lathyrus ochrus* 7511
- *Lathyrus odoratus* 7511
- *Lathyrus tingitanus* 7511
- *Petunia hybrida* 9882
  - gene expression 12265
  - genetic transformation 12265
  - mutations 12265
- *Pinus sylvestris* 2132
- *Pinus uncinata* 2132
- *Rosa,* genetics 8662
- *Rubus idaeus* 9592
- *Salix* 7449

Flavour, *Allium cepa* 9513

***Flemingia* × *Cajanus*,** intergeneric hybridization 1758

Flooding
- *Elymus elongatus,* gene location 3888
- *Elymus* × *Triticum,* chromosome addition 3888
- *Glycine max* 9367, 11730
- *Lycopersicon esculentum* 10675
- *Oryza glaberrima* 8038
- *Oryza sativa* 437, 443, 1555, 1590-1591, 1595-1596, 2755, 3847, 3849, 3861, 8037-8038, 12752, 12755
  - gene expression 444
- *Phaseolus vulgaris* 1727
- *Saccharum officinarum* 2019, 6448
- *Sorghum bicolor*
  - genetic variance 360
  - heritability 360
- *Triticum aestivum* 10129, 11350
  - chromosome addition 3888
- *Vitis* 5296
- *Zea mays,* gene expression 10291
- *Zizania palustris* 8058

Floral binding protein
- *Petunia hybrida*
  - gene expression 3415
  - genetic transformation 3415

Flowering 1198
- *Allium cepa* 7192
- *Allium sativum* 9510
- *Anacardium occidentale* 9656
- *Antirrhinum,* genetics 1160
- *Antirrhinum majus,* gene expression 5833
- *Arabidopsis thaliana*
  - gene expression 5780, 5833
  - gene location 3525
  - genetics 1160, 1238

Flowering *cont.*
- *Arabidopsis thaliana cont.*
  - molecular genetics 2358
  - mutations 2358, 3517, 3519, 8820, 10024, 10372
  - nucleotide sequences 5780
- bamboos 11117
- *Beta maritima,* genetics 2032
- *Ceratonia siliqua* 9634
- *Citrus* 9621
- *Cocos nucifera* 1974, 5393, 6387, 6400
- *Corylus* 4198
- *Cucurbita pepo* 10704
- *Echinomastus erectrocentrus* 7534
- gene expression 1120, 1197, 1199
- *Gerbera hybrida,* artificial selection 4427
- *Glycine max* 5835, 9350, 12863
  - epistasis 12843
  - genetics 12843-12844, 12850
  - mathematics 12838
- *Gossypium* 9743
- *Gossypium hirsutum* 3326
- *Hevea brasiliensis* 9764
- *Hordeum vulgare,* genetics 5913
- *Lens culinaris* 5835, 9410, 11768
- *Linum usitatissimum,* flax 9760
- *Lolium hybridum* 7025
- *Lolium perenne* 7025
- *Medicago,* induced mutations 2826
- molecular genetics 1120
  - books 2265
- *Nicotiana* 4303
- *Nicotiana alata* 926
- *Nicotiana rustica,* genetic variance 3284
- *Nicotiana tabacum*
  - gene expression 10372
  - genetic transformation 10372
- *Oryza sativa* 5835, 10364, 11581
  - gene expression 10372
  - molecular genetics 10372
- *Pennisetum glaucum* 378
- *Persea americana* 13107
- *Pinus contorta* 12214
- *Pisum sativum*
  - genetics 1238
  - mutations 12895
    - reviews 6181
- *Rhododendron aureum* 8660
- *Rosa* 11049
- *Saccharum officinarum,* mathematics 6443
- *Secale cereale* 295
- *Sesamum indicum* 13173
- *Sesbania goetzei* 10445
- *Sesbania keniensis* 10445
- *Sesbania sesban* 10445
- *Sinapis alba* 2358
- *Solanum tuberosum* 8249
- *Sorghum bicolor* 1482
- *Syzygium aromaticum* 6608
- transduction 1199
- *Trifolium ambiguum,* artificial selection 8113
- *Trifolium pratense,* mutations 8110, 9294
- *Trifolium subterraneum* 481
- *Triticum aestivum,* genetics 1238
- *Vaccinium macrocarpon* 10769
- *Vicia faba* 1717, 5835
- *Vigna* 6218
- *Vigna mungo* 11782
- *Vigna radiata* 6218, 11782
- *Vigna umbellata* 11782
- *Vigna unguiculata* 11778
- *Zea mays* 1426

Flowers 11244, 12447
- *Anacardium occidentale* 6337, 9656
- angiosperms 7672
- *Antirrhinum,* gene expression 3408-3409, 4423
- *Antirrhinum majus*
  - evolution 7520
  - gene expression 4436, 8697
  - genetics 2196
  - induced mutations 6580
  - molecular genetics 6581
  - mutations 6581, 12261
  - nucleotide sequences 12261
  - transposable elements 4436
- *Arabidopsis thaliana*
  - evolution 7520

Flowers *cont.*
- *Arabidopsis thaliana cont.*
  - gene expression 2359, 3408-3409, 7648, 12404
  - genetic transformation 7648
  - genetics 7648
  - mutations 11218
- *Aranda*
  - gene expression 4453
  - nucleotide sequences 4453
- *Beta adanensis* 2034
- *Beta macrocarpa* 2034
- *Beta maritima* 2034
- *Beta patula* 2034
- *Beta vulgaris,* sugarbeet, genetics 13188
- *Brassica campestris,* turnip rape 5356
- *Brassica carinata,* genetics 8482
- *Brassica napus,* rape 4212, 5356
- *Buddleja,* genetics 992
- Cactaceae 7532
- *Cajanus cajan,* mutations 9422
- *Camellia* 11040
- *Chamomilla recutita,* induced mutations 1042
- *Cicer arietinum,* linkage 10534
- *Clarkia amoena*
  - artificial selection 12243
  - heritability 12243
  - inbreeding depression 12243
- *Clarkia tembloriensis,* mutations 1003
- *Clianthus formosus* 13337
- *Corydalis cava* 11066
- *Corydalis marschalliana* 11066
- *Corydalis solida* 11066
- *Cucumis melo* 7672
- *Cucumis sativus* 11929
- *Cyclamen* 5652
- *Daucus carota,* nucleocytoplasmic interaction 11846
- *Decodon verticillatus* 11064
- *Dendranthema grandiflora,* genetic transformation 8680
- *Dianthus,* induced mutations 4428
- *Dianthus caryophyllus*
  - gene expression 4425
  - molecular genetics 4425
- *Diospyros kaki* 5329
- *Disa atricapilla* 9893
- *Disa bivalvata* 9893
- *Disa ferruginea* 11090
- *Doritis pulcherrima*
  - genetic transformation 13374
  - mutations 13374
- *Echinocereus coccineus* 1033
- *Erica* 5618
- Ericaceae, genetics 12233
- *Eucalyptus* 8852
- *Eucalyptus camaldulensis* 5531
- *Eucalyptus tereticornis* 5531
- evolution 6714, 11245
- gene expression 3543, 10041-10042, 11243
- genetic engineering 1237, 5749
- genetics 1237, 3543
- *Glycine max* 9350
  - genetics 2861, 6131
  - mutations 2861
- *Helianthus annuus*
  - gene expression 3217
  - molecular genetics 3217
- *Impatiens glauca* 1007
- *Ipomoea batatas* 1806
- *Jasminum auriculatum* 1059
- *Juglans regia* 10828
- *Lathyrus annuus* 7511
- *Lathyrus ochrus* 7511
- *Lathyrus odoratus* 7511
- *Lathyrus tingitanus* 7511
- *Leptospermum continentale* 9844
- *Leptospermum myrsinoides* 9844
- *Lycopersicon esculentum*
  - gene expression 7219-7220, 10666
  - genetic transformation 7219
  - mutations 6269, 11882
  - nucleotide sequences 7219
- *Matthiola incana*
  - genetics 8682
  - linkage 8682
- *Medicago,* induced mutations 2826
- *Mimulus guttatus,* genetics 9873
- molecular genetics 5749

Flowers *cont.*

- mutations 5749
- Myrtaceae 8852
- *Nicotiana sylvestris,* gene expression 9726
- *Nicotiana tabacum*
  - gene expression 6489, 9726
  - genetic transformation 2053, 6489
  - molecular genetics 2066
  - mutations 10936
- *Nicotiana tomentosiformis,* gene expression 9726
- *Olea europaea,* statistics 5396
- ornamental herbaceous plants, genetic engineering 13330
- ornamental plants, genetic engineering 2151
- ornamental succulent plants 7532
- *Ornithogalum dubium* 11080
- *Ornithogalum thyrsoides* 11080
- *Oryza sativa* 409
- *Paeonia mlokosevitschii,* induced mutations 5630
- *Pelargonium tricolor* 2183
- *Pennisetum glaucum* 10331
- *Penstemon centranthifolius,* heritability 2191
- *Petunia,* gene expression 4423
- *Petunia hybrida* 7521
  - gene expression 2197, 3416-3417
  - molecular genetics 3416
  - mutations 3416
- *Phacelia linearis,* natural selection 7510
- *Pharbitis nil*
  - gene mapping 8675
  - mutations 8675
  - transposable elements 8675
- *Pharbitis purpurea*
  - genetics 2190
  - natural selection 2190
  - polymorphism 12254
- *Phaseolus*
  - genetics 12874
  - mutations 12874
- *Phaseolus vulgaris*
  - genetics 1724, 12875
  - induced mutations 1724
  - linkage 1724
- *Platycodon grandiflorus,* artificial selection 11056
- *Primula* 4420
- *Prunus persica* 11974
- *Raphanus sativus,* natural selection 12963
- *Rhododendron mucronulatum* 2161
- *Rosa*
  - chimaeras 3382
  - genetic engineering 13330
- *Rosa hybrida,* induced mutations 996
- *Silene pratensis,* molecular genetics 2174
- *Solanum americanum* 5664
- *Solanum tuberosum*
  - gene location 5096
  - genetics 5096
  - somaclonal variation 7161
- *Solanum villosum* 5664
- *Spinacia oleracea* 1822
- *Theobroma cacao* 4287
- *Thryptomene calycina,* mutations 2162
- *Tradescantia,* mutations 9876
- *Vicia faba,* induced mutations 6148
- *Vigna mungo,* mutations 5076
- *Vigna unguiculata* 10550
- *Viola cazorlensis* 4421
- *Zea mays*
  - gene expression 2682
  - molecular genetics 2682
  - mutations 1421
- *Zinnia elegans,* induced mutations 7513

Fluorescence

- *Glycine max,* linkage 12852
- *Solanum tuberosum* 9474
- *Zea mays* 10280

Fodder legumes

- breeding 6057, 7073
- cryopreservation 12823
- digestibility 4910
- gene expression
  - *Rhizobium* 7071
  - symbiosis 7071
- genetic resources 6057, 6062, 6113, 7073
- genetic transformation, reviews 10448
- genetics
  - *Rhizobium* 7071
  - symbiosis 7071
- germination 12823
- oligosaccharides 7071
- *Orobanche* 7075
- pathogens 7074-7075
- seeds 12823
- stress 6113, 7073-7075
- variety classification 2783
- variety trials 5688, 6058-6059
- varieties 4645

Fodder plants

- breeding 12778
  - reports 5686
- fungicides 7018
- gene banks 1623, 4909, 9245
- genetic resources 1623, 6056, 9245, 12777
- nutritive value 12780
- plant composition 6060
- quality 12780
- quintozene 7018
- snow moulds 7018
- taxonomy 4909

Foeniculum

- chromosome number 2217
- DNA 2217

Foeniculum vulgare

- annual habit 7554
- biennial habit 7554
- cold resistance 7554
- height 7554

Foliage area

- *Pseudotsuga menziesii* 8653
- *Solanum tuberosum* 7159

Folylpolyglutamate, *Datura fastuosa* 8734

Forage

- *Avena sativa* 3690, 5935, 6058-6059
  - genotype environment interaction 6863
- *Brassica campestris,* heterosis 1950
- *Brassica juncea* 4221
  - heterosis 1950
- *Brassica napus,* heterosis 1950
- cereals 3570, 4651
- *Glycine max* 10485
- *Hibiscus cannabinus* 7427, 7431
- *Hordeum vulgare* 4767
- *Ipomoea batatas* 8290
- *Kochia prostrata* 12779
- *Leucaena* 9318
- millets 3564
- *Pennisetum glaucum* 4650, 6004
  - combining ability 3788
  - heterosis 3788
  - stability 7987
- *Pisum sativum* 12893
- *Secale cereale* 6058-6059
- *Sida hermaphrodita* 12776
- *Sorghum* 3564
- *Sorghum almum* 10305
- *Sorghum bicolor* 4650, 5994
  - combining ability 4862
- *Sorghum propinquum* 7974
- *Sphaeralcea coccinea,* germplasm releases 3935
- *Sphaeralcea munroana,* germplasm releases 3936
- *Trifolium pratense* 10436
- *Tripsacum dactyloides* 7946
- *Tripsacum* × *Zea* 7946
- triticale 2663
- *Triticum aestivum* 6058-6059
- *Vigna unguiculata* 1762, 7142
- *Zea diploperennis* 7946
- *Zea mays* 1456, 5978-5979, 10222, 11468, 11474
  - artificial selection 12653
  - economics 12652
  - genotype environment interaction 11469

Forage legumes (*see* Fodder legumes)

Forcing, *Tulipa* 11088

Forest decline, *Picea abies* 12220

Forest trees

- artificial selection
  - diseases 9770
  - mathematics 4370
  - statistics 8583
  - wood properties 12182
- biotechnology 5518
  - bibliographies 13257
- breeding 6530-6532, 13252, 13254
  - computer simulation 2110
  - conferences 8757
  - experimental design 7434
- clonal variation
  - mathematics 13259
  - seed production 13259
- clones
  - books 2264
  - mathematics 4370
- drought resistance 5521
- experimental design 5516, 13255
  - computer programming 13256
  - seed production 13256
- gene banks 4345, 9765-9766
- genetic engineering 7436
- genetic markers 7437, 8584
- genetic resources 967-968, 2109, 3338, 4346, 6531, 7433, 7435, 9767-9769
  - books 12314
  - conferences 8757
- genetic transformation 7436
- genetic variance, computer simulation 2111
- genetic variation 8585, 9767
- genetics 5698
- genotype environment interaction, computer simulation 2111
- heritability, yield components 13260
- ideotypes, photosynthesis 8586
- isoenzymes 7437
- molecular genetics, conferences 7567
- ornamental value 6533
- plant introduction 2109
- population genetics 12181
- random amplified polymorphic DNA 7437
- reproduction 4347
- restriction fragment length polymorphism 7437
- *Rosellinia bunodes* 13200
- salinity, reviews 5520
- seed production 6530, 6532
  - conferences 7568
  - experimental design 7434
  - legislation 7568
- sexual reproduction 970
- stress 5519
- taxonomy, conferences 8756
- tissue culture 7438

Formate dehydrogenase, *Solanum tuberosum,* mitochondrial genetics 606

Fortunella

- aspartate aminotransferase 9627
- chemotaxonomy 13099
- chloroplast genetics 9626
- cold resistance 806
- genetic variation, isoenzymes 13099
- isoenzymes 9627
- mitochondrial genetics 9626
- restriction fragment length polymorphism 9626
- taxonomy 9627-9628

Fortunella japonica, genetics, acid phosphatase 3175

Fragaria

- breeding 1906
- genetic resources 7287
- interspecific hybridization 11996
- introgression 11996
- polyploidy 1906

Fragaria ananassa

- anther culture 7290
- breeding 5272
  - history 3103
  - reports 1071
- cell culture 4151
- chromosome morphology 3148
- *Colletotrichum fragariae* 8422
- combining ability
  - *Botrytis cinerea* 3150
  - mechanical harvesting 3150
  - quality 3150
- cryopreservation 765
- essential oils 9594

- ***Fragaria ananassa*** *cont.*
  - everbearing habit 6308
  - gene expression, ripening 13080
  - genetic resources 1902
  - genetic transformation, insects 4120
  - heritability, yield components 8421
  - *in vitro* selection
    - *Alternaria alternata* 3151, 13082
    - *Phytophthora fragariae* 4152
    - *Tetranychus urticae* 8423
    - toxic substances 3151
  - *Lygus lineolaris* 3153
  - nectar 13081
  - photoperiodism 8420
  - *Phytophthora fragariae* 1069, 3152
  - plant introduction 11995
  - protected cultivation 1903
  - quality 10774
  - regenerative ability 7290
  - somaclonal variation 3149
    - *Alternaria alternata* 11997
  - temperature 8421
  - *Tetranychus urticae* 9595
  - tissue culture 3149
  - variety trials 766, 1903, 10771-10772
  - vegetative propagation 767
  - yield correlations 10774
  - varieties
    - Akita Berry 11997, 13082
    - Carezza 5278
    - Clea 5274, 5276
    - Egla 5274-5275
    - Gardena 1905
    - IAC Princesa Isabel 5273
    - Idea 7288
    - Jaune 3147
    - Linda 7289
    - Miranda 5278
    - Scotland 766
    - Selkirk 766
    - Sella 1904
    - St. Williams 766
    - Teodora 5274, 5277
- ***Fragaria chiloensis***
  - clonal variation 5279
  - drought resistance 5280-5281
  - genetic resources 1902
  - population genetics 5279
- ***Fragaria moschata,*** *in vitro* selection, *Tetranychus urticae* 8423
- ***Fragaria multicipita,*** genetic resources 8419
- ***Fragaria vesca***
  - breeding 7282
  - chromosome translocation 10773
  - genetics, male sterility 10773
  - *Tetranychus urticae* 10775
- ***Fragaria virginiana,*** drought resistance 5280-5281
- **Fragrance**
  - *Angelica archangelica* 12301
  - *Angelica sylvestris* 12301
  - *Cypripedium calceolus* 8715
  - *Pelargonium,* genetic transformation 6563
  - *Rosa* 7508
- **France,** Avignon-Montfavet Horticultural Breeding Station, reports 1071
- ***Frankia***
  - *Alnus glutinosa*
    - gene expression 4361
    - molecular genetics 4361
- ***Frankliniella,*** *Arachis* 868
- ***Frankliniella occidentalis***
  - *Chrysanthemum* 3405
  - *Cucumis sativus* 1864
  - *Dendranthema* 4434, 12260
  - *Dendranthema grandiflora* 12259
  - *Gerbera* 9880
  - *Prunus persica* 10761
- ***Fraxinus angustifolia,*** tissue culture 13276
- ***Fraxinus excelsior,*** tissue culture 12182
- ***Fraxinus pennsylvanica,*** drought resistance 5521
- **Free radicals**
  - *Hordeum vulgare*
    - back mutations 2589, 2612
    - genetics 2589, 2612
    - mutations 2589, 2612
- **French bean crinkle stunt virus,** *Phaseolus vulgaris* 12884
- ***Fritillaria camtschatcensis,*** tissue culture 2202
- ***Fritillaria cirrhosa,*** taxonomy 9887
- ***Froesia diffusa,*** taxonomy 13289
- **Fructans**
  - *Asparagus officinalis* 11872
  - *Nicotiana tabacum,* genetic transformation 8553
  - *Solanum tuberosum,* genetic transformation 10574
- **Fructification,** *Agrocybe aegerita,* genetics 4498
- **β-Fructofuranosidase**
  - *Daucus carota*
    - molecular genetics 10613
    - nucleotide sequences 10613
  - *Arabidopsis thaliana,* nucleotide sequences 8807
  - *Lycopersicon esculentum*
    - molecular genetics 4057
    - nucleotide sequences 9536
  - *Saccharum officinarum* 4275
  - *Solanum tuberosum,* genetic transformation 11192
- **Fructokinase,** *Solanum tuberosum,* molecular genetics 603
- **Fructose,** *Cichorium intybus* 5162
- **Fructose-bisphosphatase**
  - *Brassica napus,* rape, nucleotide sequences 8468
  - gene expression 5765
  - *Oryza sativa* 441
  - *Pisum sativum*
    - immunology 8194
    - nucleotide sequences 8194
  - *Spinacia oleracea*
    - immunology 8194
    - nucleotide sequences 8194
- **Fructose-bisphosphate aldolase,** *Acorus calamus,* gene expression 2229
- **Fructosyltransferase,** *Solanum tuberosum,* genetic transformation 10574
- **Fruit crops**
  - breeders' rights 5720
  - breeding 4115
    - history 729
  - cytology, books 12326
  - genetic engineering, viruses 7247
  - genetic resources 728, 1226, 4165, 4167, 7245, 8376, 8769
  - legislation, history 729
  - plant introduction 4166, 7245
  - pollination 4119
  - protoplasts 3558
  - tissue culture 4115
- **Fruiting,** *Juglans regia* 5336, 9643
- **Fruits**
  - *Abelmoschus esculentus* 6290
    - induced mutations 6292
  - *Actinidia deliciosa* 13090
  - *Anacardium occidentale* 6335, 9656
  - *Betula humilis* 7439
  - *Brassica campestris,* turnip rape 5356
  - *Brassica napus,* rape 5356
  - *Capsicum* 13025
  - *Capsicum annuum* 9557
    - genetics 4095
    - induced mutations 1848, 4095
  - *Carica papaya* 10814
  - *Cicer arietinum* 1748
  - *Citrus* 13101
  - *Citrus reticulata,* artificial selection 5319
  - *Cocos nucifera,* mutations 13153
  - *Corylus* 7316
  - *Crataegus pinnatifida,* induced mutations 10741
  - *Cucumis,* genetics 1866
  - *Cucumis melo* 715
  - *Cucumis sativus* 7240, 8373, 11939
    - genetics 3099
    - linkage 11933
  - *Cucurbita moschata,* genetics 11921
  - *Cucurbita pepo* 11919
    - genetics 11923
    - mutations 11923
  - *Glycine max* 11705-11706
    - genetics 12855
  - *Gossypium* 3321
  - *Gossypium barbadense,* genetics 3320
  - *Gossypium hirsutum* 10970
    - induced mutations 10966
- **Fruits** *cont.*
  - *Grevillea barklyana* 9843
  - *Juglans regia* 8457
  - *Lens culinaris* 9409
  - *Litchi chinensis* 4185
  - *Lycopersicon esculentum* 6266
    - gene expression 4062, 8332, 9540, 10671
      - reviews 9541
    - genetic engineering 4062
    - genetic transformation 1836, 4062, 11883
      - reviews 9541
    - heterosis 10673
    - molecular genetics 10671, 13006
    - mutations 11882-11883
    - nucleotide sequences 9540
  - *Macadamia integrifolia* 8461
  - *Macadamia tetraphylla* 8461
  - *Malus pumila* 9575, 10721, 10724, 13048
    - genetics 7248
    - mutations 13047
  - *Musa* 10801
  - *Olea europaea* 13157
    - statistics 5396
  - *Opuntia* 812
  - *Persea americana* 13108
  - *Phaseolus vulgaris* 6165, 7101
    - gene expression 8174
    - mutations 8174
  - *Pisum sativum*
    - genetics 2909, 7111
    - mutations 7111
  - *Prunus,* cherries 750
  - *Prunus persica* 5258, 10756, 11966
    - gene expression 4141, 9589
    - molecular genetics 4141
    - polymerase chain reaction 9589
  - *Punica granatum* 6330
  - *Pyrus* 8391
  - *Pyrus pyrifolia*
    - dominance 13054
    - genetics 8395
    - heritability 9582
  - *Rubus* 10764
    - blackberries 7283
  - *Salacia chinensis* 9633
  - *Sambucus nigra,* multivariate analysis 6316
  - *Simmondsia chinensis,* mutations 4270
  - *Solanum melongena* 696
  - *Solanum sessiliflorum,* heritability 5331
  - *Vaccinium angustifolium*
    - combining ability 3146
    - genetics 3145
  - *Vaccinium corymbosum,* combining ability 3146
  - *Vicia faba,* induced mutations 6148
  - *Vigna mungo,* genetics 9441
  - *Vitis vinifera* 5285, 7293
    - mutations 3159
    - stability 776
- ***Fulvia fulva***
  - *Lycopersicon esculentum*
    - gene mapping 3070-3071, 8341
    - genetic transformation 3075, 6276, 6658
    - genetics 1844, 6275-6276, 8346
    - induced mutations 1844, 7231, 8341
    - molecular genetics 7231
    - random amplified polymorphic DNA 3070
    - restriction fragment length polymorphism 3070-3071, 13018
- **Fungi**
  - artificial selection 2309
  - *Beta vulgaris,* sugarbeet 2041
  - *Carthamus tinctorius* 8501
  - cereals 11292
    - *in vitro* selection 1248
  - *Cicer arietinum* 6114
  - crops 4550
  - *Festuca pratensis* 11647
  - genetic engineering 6658
  - *Hordeum chilense* 7714
  - *Hordeum vulgare,* genetics 2624
  - *Lens culinaris* 6114
  - *Medicago sativa* 10432-10433
  - molecular genetics 2307

Fungi *cont.*
  Nicotiana sylvestris, genetic transformation 5466
  Nicotiana tabacum 8564
  Pennisetum glaucum 1507
  Pisum fulvum 8200
  Pisum humile 8200
  Pisum sativum 5058, 6114, 8200
  Saccharum officinarum 10900
  Schlumbergera truncata 3400
  Triticum aestivum 2526, 4744, 7714, 11360
  Vicia faba 6114, 6153
  Zea mays 4830, 11497, 11501
    artificial selection 4841, 6905
Fungicides
  Allium cepa 3038
  Brassica napus, rape 8486-8487
  Coprinus bilanatus 8748
  Coprinus cinereus 8748
  Festuca pratensis 7018
  fodder plants 7018
  grasses 7018
  Hordeum vulgare 12479
  Phaseolus vulgaris 9395
  Triticum aestivum 12479
  Zea mays 10272
Funkiella, taxonomy 8722
Furanocoumarins, *Apium graveolens* 649
Fusaric acid, *Glycine max,* artificial selection 7095
Fusarium (*see also Gibberella; Nectria*)
  Aegilops 6776
  Aegilops × *Triticum* 10133
  Elymus × *Triticum* 10133
  Glycine max, artificial selection 7095
  Gossypium 951-952, 3328
  Gossypium hirsutum 10960
  Pisum sativum 5058
  Secale cereale 2437, 3581
  Solanum tuberosum 11838
  Sorghum bicolor 12696
  triticale 2437, 3581
  Triticum 6776
    reviews 2536
  Triticum aestivum 2437, 2539, 2542, 3581, 10133, 12563
    in vitro selection 12463
  Triticum durum 2539
  Vicia faba 136
  Zea mays 1466, 4839
Fusarium culmorum
  Hordeum vulgare 2625
  Secale cereale 2657
    combining ability 2656, 2659
    genetic variance 2659, 6868
    heritability 2659
  Triticum aestivum 243-244, 2525, 2530, 2537, 2543, 2625, 6782, 6785, 11359, 12566
    artificial selection 6772, 12564
    heritability 6772
    in vitro selection 4731
  Triticum durum, somaclonal variation 2533
  Vicia faba 2883
Fusarium oxysporum
  Apium graveolens, germplasm releases 4043
  Brassica oleracea, cabbages 10645
  Cicer 1754
  Cicer arietinum 1755, 2927, 2932, 7134, 8209, 9419
    Ascochyta rabiei 6210
  Citrullus lanatus 3092
    genetics 13036
  Cucumis melo, genetics 11908
  Cucumis sativus 3100, 11937
    genetics 9564
    linkage 9564
  Dendranthema morifolium 11073-11074
  Dianthus caryophyllus 3399, 3401, 3403
    in vitro selection 1012
  Elaeis guineensis 3224, 13149-13150
  Gossypium barbadense 13245-13246
  Gossypium hirsutum 3327, 13245-13246
  Lens culinaris 8206, 10528
  Lilium 3419, 4451
  Lycopersicon esculentum 3062, 3068, 3072, 6278
    genetic transformation 8344
Fusarium oxysporum *cont.*
  Lycopersicon esculentum cont.
    in vitro selection 3076, 8342
    molecular genetics 6277
  Lycopersicon pimpinellifolium, genetics 680
  Medicago sativa 2833
  Musa
    in vitro selection 12009
    induced mutations 6321
    somaclonal variation 12010
  Nicotiana tabacum 12153
  Oryza sativa 2766
  Phaseolus acutifolius 9396
  Phaseolus vulgaris 2895, 9396
  Phoenix dactylifera 4188, 8450
  Pisum sativum 2915
  Solanum melongena 6283
  Solanum tuberosum 8264
  Trifolium pratense 7059, 12817
  Vicia faba 2883
  Vitis 12002
Fusarium pallidoroseum, *Sorghum bicolor* 6947
Fusarium roseum
  Festuca pratensis, artificial selection 11619
  Hordeum vulgare 2625
  Phleum pratense, artificial selection 11619
  Trifolium pratense, artificial selection 11619, 11678
  Triticum aestivum 2625
Fusarium solani
  Cucumis sativus 13028
  Cucurbita maxima 13028
  Cucurbita moschata 13028
  Cucurbita pepo 13028
  Glycine max 9369
    genetics 3951
  Nicotiana tabacum 12153
    genetic transformation 5743
  Phaseolus vulgaris 2897
  Pisum sativum, in vitro selection 9406
  Solanum tuberosum 8264
    combining ability 8272
  Trifolium pratense 7059, 12817
  Vicia faba 2883
Fusarium udum, *Cajanus cajan* 2935, 10544-10547
Fusicladium (*see also Venturia*)
Fusicoccin, *Arabidopsis thaliana,* induced mutations 2361
G proteins
  Secale cereale
    chloroplast genetics 10206
    nucleotide sequences 10206
Gaeumannomyces graminis
  Aegilops squarrosa 2574
  Triticum durum 2574
Gaillardia pulchella, inbreeding depression 8667
β-Galactosidase
  Populus alba 5539
  Populus nigra 5539
α-Galactosides, *Lupinus* 4978
Galanthus koenenianus, taxonomy 6589
Galega officinalis
  seed testing 2782
  variety classification 2782
  variety trials 2782
Galega orientalis
  nutritive value 10446
  plant composition 10446
Galtonia candicans
  chromosome number 13369
  polyploidy 13369
  tissue culture 4448
Galtonia viridiflora, tissue culture 4448
Gametocides
  Helianthus annuus 5385
  Triticum aestivum 204, 1280, 3595, 12499
  Zea mays 3740
Gametoclonal variation
  triticale 2662
  Triticum aestivum 3610
  Triticum × *Zea* 3610
Gamma radiation
  Abelmoschus esculentus 6292
  Adiantum capillus-veneris 12281
Gamma radiation *cont.*
  Allium cepa 4027
  Apium graveolens 6257
  Arabidopsis thaliana 7651
    induced mutations 10014
    mutations 6675
  Arachis hypogaea 7358
  Boehmeria nivea 2105
  Bougainvillea 2163
  Brassica campestris
    sarson 1941
    turnips 619
  Brassica napus, rape 12047
  Capsicum annuum 7236
  Chamomilla recutita 1042
  Cicer arietinum 7127
  Citrullus lanatus 11912
  Citrus 6326
  Citrus sinensis 797
  Citrus × *Poncirus* 4179
  Coleus rotundifolius 11857
  Coriandrum sativum 6607
  Coronilla 494
  Crataegus 3129
  Crataegus pinnatifida 10741
  Crotalaria juncea 961
  Cucumis melo 4105, 5208
  Cucumis sativus 10706
  Cyamopsis tetragonoloba 3991
  Dendranthema 9835
  Dendranthema morifolium 2177
  Eleusine coracana 10332
  Glycine max 1709, 7081, 11701
  Gossypium hirsutum 9739
  Helianthus annuus 846
  Hordeum vulgare 278, 1351, 3576, 4653, 4758, 6732, 8959
  Ipomoea batatas 9486
  Lantana depressa 9835
  Lens culinaris 562-563, 1743, 1745, 3970, 7121
  Lilium rhodopaeum 11087
  Lycopersicon (×) *Solanum* 5090
  Malus pumila 10719
  Medicago sativa 1655
  Musa 6318-6319, 6321
  Nicotiana plumbaginifolia 2059
  Nicotiana sylvestris 2059
  Oryza sativa 416, 1551, 1567, 4893, 6025, 6971, 6977-6978, 8001, 9224, 10361, 12732, 12734
  Paeonia 5630
  Phaseolus vulgaris 1724, 5017
  Pisum sativum 1733, 10519, 11761
  Plantago ovata 1040
  Polianthes tuberosa 11079
  Prunus persica 8408
  Pyrus communis 8393
  Rosa 9835
  Rosa hybrida 996, 13346
  Secale cereale 4653, 6731-6732
  Sesbania rostrata 491
  Solanum tuberosum 1788, 4009, 5090, 5100
  Theobroma cacao 10924
  triticale 3576, 6731, 8988-8989
  Triticum aestivum 3576, 3599, 3604, 5863, 6731-6732, 8888, 8894-8895, 11313, 12485
  Triticum monococcum 3620
  Vicia faba 106, 136
  Vigna mungo 1766
  Vigna radiata 1766
  Vigna sublobata 1766
  Zea mays 2677, 10274
  Zingiber officinale 2232, 3431
  Zinnia elegans 7513
Ganoderma, taxonomy 4509
Ganoderma lucidum, reproduction 4497
Garcinia cambogia, sex 9635
Garcinia dhanikhariensis, taxonomy 9636
Gasteria verrucosa
  ovules 2213-2214
  pollen 2214
  pollen germination 2213
Geissanthus, taxonomy 7459
Gene banks 1089, 1100, 2280-2282, 2286-2287, 2290, 4528-4529, 4531, 4533, 4535, 4537, 6637, 6642, 7580, 8768, 8770, 8790, 9956, 12337, 12339
(*see also* Genetic resources)

  Abelmoschus esculentus 3102
  Aegilops 7690
  Alchemilla 4529
  Allium 3037
  Arachis 6411, 6413
  Arachis pintoi 4248
  Avena 7690, 10197, 10199
  Avena sativa 152
  Beta 2025, 2283
    databases 2024
    genetic resources 10902
  Beta vulgaris, databases 2024
  Brassica campestris 5345
  Brassica carinata 5345
  Brassica juncea 5345
  Brassica napus 5345
  Brassica nigra 5345
  Brassica oleracea 12970
  Capsicum 4049, 4083
  cereals 4539, 6168
    reports 152
  Cicer arietinum 5061
  Cocos nucifera 6372
  Crataegus 5242
  crops 2, 1103, 2289, 4539, 9952, 11153
  fodder plants 1623, 4909, 9245
  forest trees 4345, 9765-9766
  Glycine max 6119, 11269, 11696
  Gossypium 939
  Gossypium arboreum 10957
  Gossypium herbaceum 10957
  grasses 2787, 4911
  Hordeum 7690, 12589
  Hordeum vulgare 152, 2599, 12586-12587, 12589
  Ilex 9838-9839
  Ipomoea batatas 5132
  Lotus 1668
  Manihot esculenta 5124
  medicinal plants 4528
  Musa 10802
  Nicotiana tabacum 2050
  ornamental woody plants 5611
  Oryza 7690
  Oryza sativa 384, 4881, 10338
  Pisum sativum 6168
  Rhododendron 3370
  Rosa 4529
  Saccharum 2001
  Secale 7690
  Solanum, tuberous species 10563
  Solanum melongena 4049
  Solanum tuberosum 1787, 2283, 10563
  Sorghum bicolor 1474
  Theobroma cacao
    catalogues 6472
    databases 6472
  triticale 152, 7690
  Triticum 5852, 7690
  Triticum aestivum 152, 5852
    Triticum compactum, Triticum vavilovii 7772
    Triticum spelta, Triticum vavilovii 7772
    Triticum sphaerococcum, Triticum vavilovii 7772
  Triticum compactum 152
  Triticum durum 152
  Triticum spelta 152, 2449
  Vicia faba, reports 152
  Vitis vinifera 1907
  woody plants 8765
  Zea mays 9030, 10215, 11269
Gene conversion
  nucleotide sequences 5816
  Zea mays, leaves 9011
Gene dosage
  Eleusine
    isocitrate dehydrogenase 3791
    phosphogluconate dehydrogenase (decarboxylating) 3791
  Musa, Mycosphaerella fijiensis 8438
  Nicotiana tabacum, lysozyme 8543
  Sorghum bicolor
    development 12692
    phytochrome 12692
  Triticum aestivum
    colour 12509
    endosperm 4716
    seeds 4716
    sprouting 12509
Gene dosage *cont.*
  Zea mays
    development 12676
    endosperm 12676
    transposable elements 3727
    zein 9089
Gene expression 49, 1132-1133, 1138, 1187, 2329, 2331-2332, 4571, 4576, 5748, 5759, 5764, 8797
  abscisic acid 1123, 10040
  abscission 10036
  Acorus calamus
    alcohol dehydrogenase 2229
    fructose-bisphosphate aldolase 2229
    hypoxia 2229
    pyruvate decarboxylase 2229
  Actinidia deliciosa, cysteine proteinase 1909
  Agaricus bisporus 13402
  Agrobacterium tumefaciens 1147
  Agrocybe aegerita, glycoproteins 4495
  air pollution, reviews 1112
  Allium cepa 9505
  Alnus glutinosa
    Frankia 4361
    nodulation 4361
  Amaranthus hypochondriacus, photosynthesis 450
  Amoracia rusticana, peroxidases 11123
  Anemia phyllitidis
    binding proteins 6596
    ribulose-bisphosphate carboxylase 6596
    spores 6596
  anthers 2384
  Antirrhinum
    anthocyanins 4423
    colour 4423
    development 3408-3409
    flowers 3408-3409, 4423
    naringenin-chalcone synthase 4423
  Antirrhinum majus
    anthocyanins 4439
    cell division 8696
    colour 4436
    development 5833
    flavonoids 4435
    flowering 5833
    flowers 4436, 8697
    naringenin-chalcone synthase 4436
    proteins 1013
  Arabidopsis thaliana 3501, 4579, 5770, 7607, 11209, 11225, 12410
    abscisic acid 3502, 4588, 6678, 7637, 8821
    acetyl-CoA carboxylase 12400
    acyl-CoA desaturase 1154, 13232
    adenosinetriphosphatase 6671, 8811
    albumins 7621
    amino acid permease 3497
    anthocyanins 5779, 12421
    anthranilate synthase 71
    apocytochrome *b* 62
    auxins 3512
    binding proteins 1155
    carbonate dehydratase 12401
    catalase 7641
    cell division 3513, 9911, 10017
    chaperonins 4591
    chitinase 12423
    chlorophyll 6676
    chlorophyll *a/b* binding protein 2356, 7650, 10027, 12397
    chloroplasts 8811
    cold 3502, 5785, 7654, 7659, 12409
    cold resistance 6678, 10029, 13232
    coronatine 10030
    cysteine proteinase 7660
    cytokinins 7644
    desiccation 3509
    development 74, 393, 2359, 3408-3409, 3518, 5833, 7648, 10019-10021, 10030, 11222, 12404, 12419, 12421
    diseases 5742
    DNA photolyases 3512
    drought 7659
    epoxide hydrolase 11205
    ethylene 3512, 10031, 12414
    flowering 5780, 5833
Gene expression *cont.*
  Arabidopsis thaliana cont.
    flowers 2359, 3408-3409, 7648, 12404
    β-glucanase 4203
    glutamate-ammonia ligase 11219
    glutamate 1-semialdehyde 2,1-aminomutase 6676
    glutamine tRNA reductase 6676
    glutathione reductase 10012
    glyceraldehyde-3-phosphate dehydrogenase 5778, 10011
    growth regulators 3502, 3512, 6678, 7647
    GTP-binding proteins 3508, 3526
    heat shock proteins 7655, 8813, 11224
    heavy metals 10028
    Heterodera schachtii 3531
    histones 12398
    imidazoleglycerol-phosphate dehydratase 12399
    injuries 7658
    leaves 11222
    leucyl aminopeptidase 11206
    light 74, 3512, 3518, 4588, 7644, 10020-10021, 12421
    lipid transfer proteins 10010
    lipids 12416
    lipoxygenase 5768, 10026, 12407
    male sterility 10030
    mechanical damage 83
    Meloidogyne incognita 3531
    metallothionein 10028
    methyl jasmonate 10030
    monosaccharide-H^+ symporter 11204
    nitrate reductase 78
    nitrates 5789
    nucleotide sequences
      DNA binding proteins 11110
      light 10000
      pathogenesis-related proteins 11110
    nutrients 3523, 5789
    oleosins 8812
    organelles 4581
    ovules 7642
    pathogenesis-related proteins 8822, 10031, 12423
    Peronospora parasitica 10031
    peroxidases 3511
    phenylalanine ammonia-lyase 11227
    phosphates 3523
    phosphatidylcholine desaturase 5781
    photosynthesis 7650
    phytochrome 72, 3285, 4595, 5771, 7639, 10022, 10025, 11200
    plant embryos 10019
    plant hairs 3510, 12415, 12419
    plastocyanins 3520
    pollen 4593, 8330
    protein kinase 67, 2352, 3513, 4580, 10017, 11201
    proteins 12416, 12420
    Pseudomonas solanacearum 11227
    Pseudomonas syringae 2362, 10030
    pyrroline-5-carboxylate reductase 3528
    ribosomes 62
    ribulose-bisphosphate carboxylase 1161, 7650
    salinity 3509, 3528
    seeds 7637, 8812, 12416
    senescence 11219
    stress 3509, 3512, 6680, 8821
    sucrose transporter 10004
    sulfate adenylyltransferase 12411
    techniques 6672
    thiol protease 8821
    translocation 3523
    transposable elements 1158, 6579, 7634
    transposase 7634
    tryptophan 71
    tryptophan synthase β 58
    tubulin 1153
    ubiquitin 12402
    water balance 11217
    Xanthomonas campestris 8822
  Arachis hypogaea
    heat shock 12466

Gene expression *cont.*
- *Arachis hypogaea cont.*
  - phosphinothricin acetyltransferase 12077
  - phosphoenolpyruvate carboxylase 12466
  - ribulose-bisphosphate carboxylase 12466
  - tomato spotted wilt tospovirus 12077
- *Aralia cordata,* cinnamyl-alcohol dehydrogenase 7539
- *Aranda,* flowers 4453
- *Armoracia rusticana,* peroxidases 4487, 5680
- *Asparagus officinalis*
  - asparagine synthetase 656
  - pathogenesis-related proteins 10653
  - ubiquitin 12984
- *Atriplex nummularia*
  - adenosinetriphosphatase 3430, 3475
  - salinity 3430, 3475
- *Atropa belladonna,* hyoscyamine (6*S*)-dioxygenase 13382
- *Avena,* phytochrome 11398
- *Avena fatua*
  - dormancy 5934, 12637
  - seeds 5934
- *Avena sativa* 5846
  - abscisic acid 155
  - α-amylase 155
  - *Cochliobolus victoriae* 12640
  - DNA binding proteins 6966
  - gibberellins 155
  - growth regulators 155
  - pathogenesis-related proteins 12640
  - phytochrome 3285, 5930, 6966, 7864, 10022, 10201
- bacteria 1116
- *Bertholletia excelsa,* albumins 4199
- *Beta vulgaris*
  - sugarbeet
    - adenosinetriphosphatase 9704
    - annual habit 10909
    - betaine-aldehyde dehydrogenase 12146
    - bolting 10909
    - *Cercospora beticola* 9710
    - chitinase 9710
    - enzymes 8526
    - pathogenesis-related proteins 9710
    - source sink relations 8526
- *Betula pendula,* plant embryos 971
- books 12324
- *Brassica, Xanthomonas campestris* 1959
- *Brassica alboglabra,* self incompatibility 3553
- *Brassica campestris,* self incompatibility 4029
- *Brassica napus*
  - β-glucanase 4203
  - self incompatibility 4029
  - rape 823, 1934, 6666
    - acetohydroxyacid synthase 12033
    - acyl-acyl-carrier-protein desaturase 4213, 10836
    - acyl carrier protein thioesterase 4205
    - acyl-CoA desaturase 13122
    - anthers 5363
    - chaperonins 824-825
    - chloroplasts 824
    - cold 5353
    - cruciferin 5352, 12045-12046
    - fertility 5363
    - glycoproteins 4210
    - isocitrate lyase 8477
    - isoenzymes 4208
    - malate synthase 8477
    - napin 4204, 4216, 12045
    - oleosins 821, 4213, 6340
    - phosphinothricin acetyltransferase 8478
    - plant embryos 11274
    - pollen 1943, 5354, 8477
    - polygalacturonase 5354
    - proline-rich proteins 5365
    - proteins 8469
    - seeds 4213
    - self incompatibility 4210
    - senescence 13134
    - shedding 5365-5366

Gene expression *cont.*
- *Brassica napus cont.*
  - rape *cont.*
    - thioglucosidase 4208
- *Brassica oleracea*
  - anthers 3042
  - glycoproteins 3042
  - self incompatibility 3041, 4029
- *Bromus inermis*
  - cold resistance 12808
  - dehydrin 12808
- *Bromus secalinus,* dormancy 12805
- *Bryonia cretica*
  - calmodulin 4469
  - mechanical damage 4469
  - peroxidases 4471
- *Camptotheca acuminata,* hydroxymethylglutaryl-CoA reductase 3425
- *Capsicum annuum,* capsanthin-capsorubin synthase 10692
- catalase 11187
- *Catharanthus roseus*
  - aromatic-L-amino-acid decarboxylase 8732
  - cell division 9911
  - cytochrome P-450 8733
  - heat shock proteins 2219
  - tryptophan decarboxylase 4470
- cauliflower mosaic caulimovirus, reviews 1124
- cell division, reviews 110
- cereals 7694
- *Chenopodium rubrum*
  - heat shock proteins 10391
  - translocation 12775
- *Cicer arietinum*
  - cysteine proteinase 9415
  - ethylene 9415
  - germination 9415
  - seeds 3975
- *Clivia miniata,* lectins 8703
- *Coix lacryma-jobi*
  - α-coixin 6883
  - DNA binding proteins 6883
- conifers
  - chlorophyll *a/b* binding protein 7475
  - ribulose-bisphosphate carboxylase 7475
- *Coprinus bilanatus,* reproduction 4500
- *Coprinus cinereus,* reproduction 4500
- *Coriandrum sativum,* palmitoyl-acyl carrier protein desaturase 8745
- *Craterostigma plantagineum*
  - abscisic acid 8669
  - desiccation 6577, 8669
  - drought resistance 12621
- crops
  - *Bacillus thuringiensis* 9972
  - chitin 1114
  - lectins 1114
  - pathogens 1114
  - protein kinase 44
- Cruciferae, seeds 1812
- *Cucumis melo,* zucchini yellow mosaic potyvirus 3090
- *Cucumis sativus* 4113, 11270
  - aminolevulinic acid 9563
  - carbohydrates 10709
  - cell culture 10709
  - chitinase 3283, 13042
  - *Colletotrichum orbiculare* 5464
  - heat shock proteins 11927
  - hydroxypyruvate reductase 4112
  - isocitrate lyase 10709
  - malate dehydrogenase 10709
  - malate synthase 10709
- *Cucurbita*
  - chaperonins 1860
  - (*S*)-2-hydroxy-acid oxidase 9562
- *Cucurbita pepo*
  - ACC synthase 6286
  - heat shock 5212
- *Cynara cardunculus*
  - cyprosin 8320
  - proteinases 8320
- cytokinins 4554
- *Datura stramonium,* tropinone reductases, nucleotide sequences, tropinone reductases 11101
- *Daucus carota* 2006, 10612
  - glufosinate 9973

Gene expression *cont.*
- *Daucus carota cont.*
  - glycoproteins 4013
  - herbicides 9973
  - naringenin-chalcone synthase 10614
- *Dendranthema grandiflora,* naringenin-chalcone synthase 4426
- development 2385, 3544, 10036, 10041-10042, 10054, 11243
- *Dianthus caryophyllus*
  - ethylene 4425
  - flowers 4425
  - growth regulators 4425
  - senescence 4425
- diseases 1116, 5738
  - reviews 8780
- DNA binding proteins 10464
- drought resistance 5729
- *Eleusine*
  - isocitrate dehydrogenase 3791
  - phosphogluconate dehydrogenase (decarboxylating) 3791
- *Elymus elongatus,* salinity 2523
- *Elymus × Triticum,* salinity 2523
- embryology 3551
- *Erythrina caffra,* trypsin inhibitors 13335
- *Eustoma grandiflorum,* flavonoids 5632
- evolution 5833, 11243
- *Flaveria pringlei,* translocators 4816
- *Flaveria trinervia,* translocators 4816
- flowering 1120, 1197, 1199
- flowers 3543, 10041-10042, 11243
- fodder legumes
  - *Rhizobium* 7071
  - symbiosis 7071
- *Fragaria ananassa,* ripening 13080
- fructose-bisphosphatase 5765
- germination 3551
- *Ginkgo biloba,* chlorophyll *a/b* binding protein 4385
- glutathione reductase 11187
- *Glycine max* 10466, 10471, 11209
  - abscission 8155
  - acid phosphatase 10465
  - δ-aminolevulinic acid dehydratase 10470
  - auxins 506, 6128, 8149, 10463
  - *Bradyrhizobium* 520
  - brassinosteroids 6126, 8154
  - cellulase 8155
  - β-conglycinin 6123, 8147, 9335
  - coproporphyrinogen oxidase 507
  - 4-coumarate:CoA ligase 525
  - dihydrokaempferol 4-reductase 12842
  - disulfide isomerase 3914
  - DNA binding proteins 10464
  - embryogenesis 7080
  - ferric leghaemoglobin reductase 8146
  - ferritin 6140
  - glutamate-ammonia ligase 6127
  - glutamate-1-semialdehyde 519
  - glycinin 3942, 9337
  - growth regulators 506, 6128, 8153-8154
  - heat shock 5767, 12466
  - isoenzymes 4989
  - leghaemoglobin 10464
  - lipoxygenase 8148, 10481
  - naringenin-chalcone synthase 12842
  - nodulation 519-521, 523, 2870, 6140
  - nodulins 2870
  - phosphate 10465
  - phosphoenolpyruvate carboxylase 12466
  - *Phytophthora megasperma* 525, 2872
  - plant embryos 11274
  - protoplasts 505
  - *Rhizobium* 520
  - ribulose-bisphosphate carboxylase 12466
  - seeds 6123
  - sucrose 8153, 10465
  - tubulin 7079
  - urease 4989
  - rape, acyl-CoA desaturase 13122
- *Glycine tomentella*
  - *Bradyrhizobium* 520
  - nodulation 520
  - *Rhizobium* 520
- *Gossypium hirsutum, Bacillus thuringiensis* 3330

Gene expression *cont.*
  grain legumes
    Rhizobium 7071
    symbiosis 7071
  growth regulators 10040, 12381
  gynoecium 2385
  Helianthus annuus
    anthers 10859
    cytoplasmic male sterility 4233, 10859
    flowers 3217
    heat shock proteins 4237, 12057
    injuries 8498
    meiosis 10859
    plant embryos 12057
    stress 4237
  Hevea brasiliensis, superoxide dismutase 965
  Hordeum vulgare 3573, 3804
    abscisic acid 155, 268, 11384
    alanine aminotransferase 6842
    amylase inhibitors 1341
    α-amylase 155, 267, 3671, 11375
    anoxia 6842, 8952
    calcium binding proteins 10164
    calreticulin 10164
    chlorophyll 7845
    chlorosis 6821
    cold 3669, 8964
    dihydrokaempferol 4-reductase 2615
    dioxygenase 12592
    DNA binding proteins 3671
    dormancy 6829
    drought resistance 12621
    embryology 11378
    enzymes 1247
    Erysiphe graminis 290, 2629, 5923, 10190, 11394
    gibberellins 155, 267, 3671
    β-glucanase 2582, 266, 11379
    glucose dehydrogenase 12594
    glutamate synthase 3670
    growth regulators 155, 267-268
    haemoglobin 8952
    heat shock proteins 271
    hordein 6820
    iron 12592
    Leptosphaeria nodorum 5922
    lipid transfer proteins 3668, 12604
    nitrite reductase 7846
    nutrients 12592
    oleosins 6829
    organelles 10163
    pathogenesis-related proteins 290
    photosynthesis 2601, 2603, 4762, 10163, 10172, 11376-11377
    plant embryos 11378
    ribitol dehydrogenase 12594
    ribosome inactivating proteins 6500
    ribulose-bisphosphate carboxylase 11376
    sucrose synthase 274
    thioneins 8953
  Hyoscyamus niger
    histones 396, 2220
    hyoscyamine (6*S*)-dioxygenase 13382
  inflorescences 11243
  Ipomoea batatas, β-amylase 11850
  Lactuca sativa, transposable elements 4044
  leaves 10464
  leghaemoglobin 10464
  light 5760
  Lilium longiflorum, pollen 12270
  Lolium perenne 3804
    heat resistance 9254
    heat shock proteins 9254
  Lolium rigidum
    herbicides 1629
    pollen 1629
  Lotus corniculatus
    dihydrokaempferol 4-reductase 8121
    leghaemoglobin 486, 8122, 12822
    nitrogen fixation 8122
    nodulation 12822
    tannins 8121
  Lupinus
    nutritive value 8133
    proteins 8133
  Lupinus angustifolius, asparaginase 11685

Gene expression *cont.*
  Lupinus luteus 4956
  Lycopersicon, β-glucuronidase 11884
  Lycopersicon chmielewskii
    acid invertase 4069
    sugars 4069
  Lycopersicon esculentum 3579
    ACC deaminase 673
    ACC synthase 671, 6286
    acid invertase 4069
    adenosylmethionine synthetase 9548
    anthers 1828
    anthocyanins 13003
    arginine decarboxylase 4063
    binding proteins 665
    brassinosteroids 8154
    chloroplasts 9544
    chorismate synthase 4055
    citrus exocortis viroid 8349-8350
    cytosol aminopeptidase 9549
    3-deoxy-D-*arabino*-heptulosonate 7-phosphate synthase 4054
    development 10666
    drought resistance 1840, 7215
    enzymes 10659
    ethylene 671
    fenthion 10677
    flowers 7219-7220, 10666
    fruits 4062, 8332, 9540, 10671
      reviews 9541
    gibberellins 10660
    β-glucanase 8350
    glutamate synthase 7221
    growth regulators 671, 8154, 10660
    histidine decarboxylase 1829
    histones 8333
    hygromycin phosphotransferase 9538
    injuries 12997, 13014-13015
    light 7221
    Meloidogyne incognita 10686
    pathogenesis-related proteins 664, 8349
    pectin esterase 9540
    pectinesterase 10667, 13011
    peroxidases 9547
    photosynthesis 7212
    phytochrome 9544
    pollen 8330, 13001
    polygalacturonase 672, 11887, 13011
      reviews 9541
    proteinase inhibitors 4056, 13014-13015
    proteins 667, 7214
    Pseudomonas syringae 9549, 10677
    quality 11887
    ribulose-bisphosphate carboxylase 394
    ripening 672-673, 1829, 3058, 4062-4063, 7215, 10668, 10671, 11887, 13011
      reviews 9541
    salinity 9547-9548
    schlerenchyma 13008
    Spodoptera littoralis 9549
    sucrose synthase 8332
    sugars 4069
    systemin 6268
    tomato spotted wilt tospovirus 10952
    transferases 12997
    xylem 13008
  Lycopersicon pennellii, drought resistance 1840
  Malus pumila
    leaves 1890
    ribulose-bisphosphate carboxylase activase 1890
  Manihot esculenta 5130
    1,4-α-glucan branching enzyme 11848
    starch synthase 4017, 11848
  Medicago sativa
    acetyl-CoA carboxylase 10422
    acid protease 1657
    D-alanine transaminase 11657
    albumins 6107
    cell division 7050
    chalcone isomerase 3913, 8103
    chalcone *O*-methyltransferase 3913
    cold resistance 477, 8104, 9288
    disulfide isomerase 3914
    glufosinate 9973

Gene expression *cont.*
  Medicago sativa cont.
    glycine-rich proteins 9288
    herbicides 9973
    naringenin-chalcone synthase 8103
    nitrogen fixation 7051
    nodulation 3918-3919, 7051, 8103, 11665, 12813
    nodulins 2824, 11666
    nutritive value 8133
    phosphoprotein phosphatase 11659
    proteins 8133
    Rhizobium 3918, 7050, 7071, 11665, 12813
    symbiosis 7071
    vicilin 6107
  Medicago truncatula
    Glomus versiforme 10425
    glutamate-ammonia ligase 2825
    nodulation 3918
    Rhizobium 3918
  Medicago varia, phosphoprotein phosphatase 11659
  Melilotus alba, chlorophyll 6090
  Mesembryanthemum crystallinum
    malate dehydrogenase 8730
    ribulose-bisphosphate carboxylase 4464
    salinity 4464, 8730
  multiple genes 11175
  Nicotiana
    cytoplasmic male sterility 10935
    β-glucuronidase 12132
    photosynthesis 932
  Nicotiana alata
    pollen 4301
    ribonucleases 4301
    self incompatibility 4301
  Nicotiana benthamiana
    cucumber mosaic cucumovirus 4480
    potato X potexvirus 4480
    potato Y potyvirus 4480
  Nicotiana debneyi
    pathogenesis-related proteins 6497
    ubiquitin 6497
  Nicotiana glauca 10927
    abnormal development 12154
    cytokinins 12154
    genetic tumours 12155
    growth regulators 12154
    kinases 12154
  Nicotiana glutinosa
    pathogenesis-related proteins 6497
    ubiquitin 6497
  Nicotiana langsdorffii 10927
    abnormal development 12154
    cytokinins 12154
    genetic tumours 12155
    growth regulators 12154
    kinases 12154
  Nicotiana plumbaginifolia 4579
    adenosinetriphosphatase 8540
    apoaequorin 1143
    chitinase 3283
    cold resistance 6084
    extensin 12135
    β-glucanase 6479
    heat shock 10939
    isopentenyl transferase 10939
    stress 12152
    strictosidine synthase 12286
    superoxide dismutase 6084, 12152
  Nicotiana sylvestris 2056, 5444, 5452, 10934
    binding proteins 10933
    Cercospora nicotianae 5465
    chitinase 3278, 5465
    flowers 9726
    β-glucanase 5465
    mitochondria 9726
    photosynthesis 9727
    Rieske FeS protein 9726
    tobacco mosaic tobamovirus 5468
    ubiquitin 12402
  Nicotiana tabacum 2052, 3579, 4306, 6475, 6666, 9997, 10931, 11199, 11209, 12134, 12136-12137, 12139, 13201, 13213-13214
    abscisic acid 10856
    acetolactate synthase 908
    acid phosphatase 10465

- **Gene expression** *cont.*
  - *Nicotiana tabacum cont.*
    - acyl-acyl-carrier-protein desaturase 10836
    - acyl-CoA desaturase 13232
    - adenosinetriphosphatase 2060, 3475, 6671, 10088, 12128
    - adenosylmethionine decarboxylase 8542
    - *Agrobacterium rhizogenes* 927, 10932
    - albumins 2907, 4199, 6107
    - alcohol dehydrogenase 1830
    - alfalfa mosaic alfamovirus 13235
    - alternative oxidase 13225
    - anthers 2384, 9718
    - antibodies 3277
    - aromatic-L-amino-acid decarboxylase 8732
    - ascorbate oxidase 10705
    - asparaginase 11685
    - auxins 909, 914, 6128
    - *Bacillus thuringiensis* 12156
    - *Botrytis cinerea* 3298, 6499
    - caffeic acid *O*-methyltransferase 8559
    - carbonate dehydratase 12123, 13229
    - catalase 4306
    - catechol *O*-methyltransferase 2057
    - cauliflower mosaic caulimovirus 918, 10925
    - chaperonins 13207
    - chitinase 3278, 3283, 3293, 6500, 7404
    - chlorophyll *a*/*b* binding protein 2356, 5858
    - cinnamyl-alcohol dehydrogenase 13228
    - α-coixin 6883
    - cold resistance 935, 13232
    - β-conglycinin 6123
    - cucumber mosaic cucumovirus 4480, 10945, 10948, 10951, 13235
    - cysteine synthase*O*-acetylserine (thiol) lyase 2458
    - cytochromes 12124, 13237
    - cytokinins 910, 914, 13204
    - development 912, 2384, 9721, 10372
    - diseases 5742, 8562
    - disulfide isomerase 3914
    - dithiothreitol 12126
    - DNA binding proteins 5447, 6883, 10929, 13206, 13209
    - ethylene 2054, 13234
    - extensin 4291, 4313
    - ferredoxin 13210
    - flavonoids 4435
    - flowering 10372
    - flowers 6489, 9726
    - genetic transformation
      - glucose-1-phosphate adenylyltransferase 10566
      - starch 10566
      - stomata 10566
    - *Globodera solanacearum* 4313
    - β-glucanase 9730, 5456, 6479, 9718
    - β-glucuronidase 8547, 9724, 12130, 12138, 13233
    - glufosinate 9973
    - glutamate-ammonia ligase 6174
    - glycine decarboxylase 10520
    - glycinin 3942
    - glycoproteins 12140
    - growth regulators 909-910, 914, 928, 2054, 6128
    - heat shock 5767
    - heat shock proteins 928
    - helianthinin 10856
    - herbicides 4315, 9973, 13237
    - *Heterodera schachtii* 3531
    - histones 12398
    - hydrogen peroxide 4306
    - hydroxymethylglutaryl-CoA reductase 3425
    - hyoscyamine (6*S*)-dioxygenase 13382
    - IAA 910, 928
    - leaves 7397
    - light 13210
    - luciferase 916, 927
    - lysine 4292
    - lysozyme 6506, 8543
    - male sterility 2060
    - mannopine synthase 915, 930
- **Gene expression** *cont.*
  - *Nicotiana tabacum cont.*
    - *Meloidogyne* 4314
    - *Meloidogyne incognita* 3531
    - *Meloidogyne javanica* 4313
    - metallothionein 13202, 13233
    - methyl jasmonate 3279, 13234
    - mitochondria 9726
    - monosaccharide transporters 911
    - NAA 909
    - napin 4204
    - nicotine 10928
    - nitrate reductase 10926
    - nitrite reductase 4037
    - nitrogen reductase 6476
    - nodulation 912
    - nopaline synthase 4576
    - norflurazon 4315
    - ornithine carbamoyltransferase 3290
    - osmotin 5450, 13234
    - pathogenesis-related proteins 2054, 5450, 6497, 6499, 6504, 6647, 9730, 10653, 10925, 13234
    - pathogens, reviews 2075
    - *Peronospora tabacina* 3289, 5464
    - peroxidases 11123
    - phaseolin 13206
    - phosphate 10465
    - phosphate translocator 7387
    - phosphoglyceromutase 4265
    - photosynthesis 1778, 2067, 12147, 12977, 13229
    - phytoalexins 6499
    - phytochrome 3285, 11398, 13205, 13224
    - phytoene desaturase 4315
    - *Phytophthora infestans* 7404
    - *Phytophthora nicotianae* 3289, 5464
    - plant embryos 11274
    - plum pox potyvirus 3302, 10947
    - pollen 2061, 4593, 5834, 8330, 9721
    - pollen germination 12140
    - pollination 4300
    - polyamines 8542
    - polygalacturonase 9721
    - potato X potexvirus 4480
    - potato Y potyvirus 4480, 10949, 10953
    - proline-rich proteins 4300
    - protein kinase 2055
    - proteinase inhibitors 9720
    - proteins 9722
    - protoplasts 10465
    - *Pseudomonas syringae* 3290
    - putrescine *N*-methyltransferase 10928
    - pyrophosphatase 12147
    - resveratrol 6499
    - reviews 12145
    - *Rhizoctonia solani* 3293, 5464, 6500
    - ribosome inactivating proteins 6500
    - ribozymes 12127
    - ribulose-bisphosphate carboxylase 2067, 12125, 12145, 13226
    - ribulose-bisphosphate carboxylase activase 931, 8557
    - Rieske FeS protein 9726
    - roots 13211
    - salicylic acid 3279, 4306, 10925
    - salinity 3475
    - seeds 6123, 10856
    - self incompatibility 3041
    - senescence 930
    - source sink relations 6232
    - sterility 12141
    - stress 6192, 6680, 12152
    - sucrose 10465, 10932
    - superoxide dismutase 6192, 12152
    - tetracycline 8544
    - thioneins 8953
    - threonine 4292
    - tobacco etch potyvirus 4310
    - tobacco mosaic tobamovirus 918, 2076, 3303, 5469, 5478, 6503-6504, 6506, 10950, 13227
    - tobacco rattle tobravirus 8567
    - tobacco vein mottling potyvirus 10946
    - tomato spotted wilt tospovirus 10952
    - transposable elements 3718, 6579, 8562
    - trihydroxystilbene synthase 6499
- **Gene expression** *cont.*
  - *Nicotiana tabacum cont.*
    - tryptophan decarboxylase 4470
    - tubulin 3710, 7079
    - ubiquitin 6497
    - vicilin 6107
    - zucchini yellow mosaic potyvirus 3090
  - *Nicotiana tomentosiformis*
    - flowers 9726
    - β-glucanase 9730
    - mitochondria 9726
    - pathogenesis-related proteins 9730
    - Rieske FeS protein 9726
  - nitrate reductase 11186
  - nitrates 11186
  - nitrite reductase 11186
  - organelles 4558
  - *Oryza*, glutelins 11582
  - *Oryza sativa* 397, 3804, 3806, 6967, 10060, 11557
    - ACC synthase 444
    - alcohol dehydrogenase 10233
    - α-amylase 3805, 10359, 11565, 11588, 12714
    - binding proteins 12721
    - chitinase 3808
    - chlorophyll *a*/*b* binding protein 11586
    - chloroplasts 9201
    - cytochromes 12124
    - cytoplasmic male sterility 408
    - development 393, 10372
    - DNA binding proteins 6966
    - flooding 444
    - flowering 10372
    - gibberellic acid 11565
    - glutelins 10379, 11556
    - glycoproteins 9200
    - heat shock proteins 9233, 12757
    - height 12739
    - histones 396, 1276, 3816
    - hydroxymethylglutaryl-CoA reductase 11608
    - interferon 6968
    - luciferase 8011
    - malic enzyme 9199
    - NAD(P)H-plastoquinone-oxidoreductase 12465
    - oryzacystatin 6023
    - pathogenesis-related proteins 11608
    - phosphoenolpyruvate carboxylase 12674
    - photosynthesis 6020, 11585, 12737
    - phytochrome 5930, 6966, 13224
    - plant embryos 8003
    - prolamins 10379, 11559
    - protein kinase 8013
    - pyruvate,orthophosphate dikinase 10273
    - ribosomal RNA 11560
    - ribulose-bisphosphate carboxylase 394, 6975, 12674
    - rice tungro bacilliform badnavirus 11609
    - starch synthase 1528
    - stress 6970, 11604
    - tissue culture 11563
    - transposable elements 7898
    - ubiquitin 1402
    - viruses 11609
    - vivipary 8003
  - *Panicum miliaceum*
    - alanine aminotransferase 6842
    - anoxia 6842
  - *Parthenium argentatum*, hydroxymethylglutaryl-CoA reductase 2108
  - pathogenesis-related proteins 3309, 6647
  - peroxidases 11187
  - *Persea americana*, ripening 3180
  - *Petroselinum crispum*
    - bergaptol *O*-methyltransferase 11108
    - 4-coumarate:CoA ligase 8744, 11108
    - DNA binding proteins 11109
    - injuries 8744
    - light 11109
    - naringenin-chalcone synthase 7553, 8744, 11108, 12298
    - nucleotide sequences
      - DNA binding proteins 11110
      - pathogenesis-related proteins 11110

- **Gene expression** *cont.*
  - *Petroselinum crispum cont.*
    - phenylalanine ammonia-lyase 8744, 11108
    - *Phytophthora megasperma* 3435, 5838
  - *Petunia* 4821
    - anthocyanins 4423
    - colour 4423
    - cytoplasmic male sterility 6585
    - flowers 4423
    - naringenin-chalcone synthase 2198, 4423
  - *Petunia hybrida* 7521, 11443
    - alcohol dehydrogenase 2199
    - anthocyanins 4439
    - colour 2197, 4440
    - cysteine proteinase 1909
    - development 3416-3417
    - dihydrokaempferol 4-reductase 9881, 13368
    - flavonoid 3′,5′-hydroxylase 4440
    - flavonoids 2197
    - flavonol synthase 4437
    - flavonols 12265
    - floral binding protein 3415
    - flowers 2197, 3416-3417
    - β-glucuronidase 12264
    - hypoxia 2199
    - injuries 6583
    - kanamycin 7522
    - neomycin phosphotransferase 12264
    - nitrate reductase 8698
    - photosynthesis 6586
    - pollen germination 12265
    - pollination 6583
    - protoplasts 1016
    - rhamnosyltransferases 3412
    - transposable elements 3729
  - *Petunia inflata*
    - pectinesterase 12262
    - pollen 11077, 12262
    - receptor-like protein kinases 11077
  - *Phalaenopsis*
    - ACC oxidase 3421
    - pollination 3421
  - *Pharbitis nil*
    - DNA binding proteins 4415
    - photoperiodism 8681
  - *Phaseolus vulgaris*
    - anthocyanins 2890, 8174
    - binding proteins 6159
    - chitinase 10504
    - *Colletotrichum lindemuthianum* 540, 6159
    - colour 8174
    - cytoplasmic male sterility 5024
    - fruits 8174
    - injuries 11747
    - lipoxygenase 2886
    - NAD(P)H-plastoquinone-oxidoreductase 12465
    - ornithine carbamoyltransferase 5037
    - pathogenesis-related proteins 11747
    - phaseolin 2885, 8172
    - polygalacturonase-inhibiting protein 11747
    - proline 540
    - *Pseudomonas syringae* 5037
    - ribulose-bisphosphate carboxylase 8175
    - stress 5986
  - phosphoenolpyruvate carboxylase 6665, 11183
  - photosynthesis 3488
  - phytoalexins 2308, 2350
  - phytochrome 1136
  - *Phytolacca americana*
    - cucumber mosaic cucumovirus 4480
    - potato X potexvirus 4480
    - potato Y potyvirus 4480
  - *Picea abies* 5596
    - cinnamyl-alcohol dehydrogenase 986
    - ribulose-bisphosphate carboxylase 8640
    - ubiquitin 8640
  - *Picea engelmannii*
    - albumins 7485
    - legumin 7485
    - vicilin 7485
- **Gene expression** *cont.*
  - *Picea glauca*
    - albumins 7485
    - legumin 7485
    - vicilin 7485
  - *Pinus sylvestris*
    - glutathione reductase 6553
    - nitrate reductase 12209
    - photosynthesis 11026
    - stress 6553
    - superoxide dismutase 6553
  - *Pinus thunbergii,* chlorophyll *a*/*b* binding protein 7479
  - *Pisum sativum* 3966, 11270
    - abscisic acid 5046
    - albumins 2907, 4199
    - *Ascochyta pisi* 2913
    - aspartate-ammonia ligase 5047, 6172
    - aspartate carbamoyltransferase 10518
    - carbonate dehydratase 10521
    - chitinase 2913
    - ferredoxin 13210
    - glutamate-ammonia ligase 5047
    - glutathione reductase 12899
    - glycerol-3-phosphate acyltransferase 8187
    - glycine decarboxylase 10520
    - growth regulators 5045
    - GTP-binding proteins 7107, 10517
    - histones 6182
    - IAA 5045
    - lectins 5044
    - light 546, 13210
    - lipoxygenase 6183
    - naringenin-chalcone synthase 12899
    - nodulation 521, 558
    - nodulins 557, 3967
    - nutritive value 8133
    - phosphoric monoester hydrolases 8183
    - phytochrome 546
    - proteins 8133
    - *Rhizobium* 557
    - ribulose-bisphosphate carboxylase 6170, 10521
    - roots 6182
    - superoxide dismutase 6192, 12899
    - *Verticillium* 8273
    - vicilin 6107
  - plant embryos 3555, 10040
  - pollen 1208, 3544
  - *Populus deltoides,* injuries 974
  - *Populus trichocarpa,* injuries 974
  - protoplasts 10047
  - *Prunus persica*
    - dehydrin 10757
    - fruits 4141, 9589
    - polygalacturonase 9589, 10758
    - ripening 4141, 9588-9589, 10758
  - *Pseudotsuga menziesii*
    - dormancy 8652
    - temperature 8652
  - *Psophocarpus tetragonolobus*
    - chymotrypsin inhibitors 5083
    - leghaemoglobin 7157
  - *Raphanus sativus*
    - adenosinetriphosphatase 5136
    - DNA binding proteins 9493
    - ribosomal DNA 9493
    - seeds 1812
  - reviews 42, 4575, 9989, 11186-11187
  - *Ricinus communis*
    - catalase 12092
    - cysteine proteinase 4266
    - isocitrate lyase 6478
    - phosphoglyceromutase 4265
  - *Rubus,* β-glucuronidase 12132
  - *Saccharum* 3258
  - *Saccharum officinarum* 2006, 12104
  - *Sambucus nigra*
    - cellulase 9613
    - β-glucanase 9613
  - *Saponaria officinalis,* saporin 4472
  - *Secale cereale* 3573
    - heat shock proteins 11413
    - organelles 8979
  - *Sesbania rostrata*
    - leghaemoglobin 12822
    - nodulation 12822
  - sex 3543
- **Gene expression** *cont.*
  - sexual reproduction 3543, 10041-10042, 12305
  - *Sinapis alba*
    - anthers 9676
    - naringenin-chalcone synthase 8491
    - photoperiodism 8492
    - pollen 9676
    - RNA polymerase 9675
    - thioglucosidase 843
  - *Solanum,* apocytochrome *b* 142
  - *Solanum chacoense,* self incompatibility 3553
  - *Solanum melongena*
    - anthocyanins 4077
    - flavonoids 4077
    - light 4077
  - *Solanum phureja*
    - isoenzymes 2962
    - patatin 2962
  - *Solanum tuberosum* 2953, 3579, 9997
    - amylose 6233
    - carbohydrates 6236
    - cecropin 4005
    - chitinase 6229
    - cold resistance 8260
    - cucumber mosaic cucumovirus 4480
    - epoxide hydrolase 11800
    - *Erwinia carotovora* 2979, 4005
    - genetic transformation
      - glucose-1-phosphate adenylyl-transferase 10566
      - starch 10566
      - stomata 10566
    - β-glucanase 6229
    - glycogen (starch) synthase 10585
    - hydroxymethylglutaryl-CoA reductase 10576
    - indoleacetate-lysine synthetase 10570
    - injuries 10590
    - isoenzymes 2962
    - lipoxygenase 10590
    - lysozyme 4005
    - NADH dehydrogenase (ubiquinone) 10569, 11803
    - patatin 2962, 8238, 10577
    - photosynthesis 1778, 11821
    - *Phytophthora infestans* 5838
    - potato X potexvirus 4480, 6243
    - potato Y potyvirus 4480
    - proteinase inhibitors 3995
    - pyrophosphate:fructose-6-phosphate 1-phosphotransferase 8248
    - ribosomes 5089
    - Rieske FeS protein 9453
    - source sink relations 6232, 10577
    - starch 10575, 10585, 11821
    - starch phosphorylase 608
    - starch synthase 4017, 6233, 11804
    - sucrose 3999
    - sucrose transporter 8246
    - sugars 10575
    - translocation 3999
    - tubers 10575
    - ubiquitin 5089
    - viruses 10607
  - *Sorghum bicolor* 5846
    - *Agrobacterium tumefaciens* 2708
    - dehydrin 5997
    - desiccation 5997
    - heat shock 12466
    - NAD(P)H-plastoquinone-oxidoreductase 12465
    - phosphoenolpyruvate carboxylase 12466
    - photosynthesis 331, 12471
    - proteins 6918
    - quality 9174
    - ribulose-bisphosphate carboxylase 12466, 12471
    - sucrose synthase 9174
  - *Spinacia oleracea* 1820, 4039
    - acetohydroxy acid isomeroreductase 10647
    - adenosinetriphosphatase 10646
    - betaine-aldehyde dehydrogenase 12146
    - chloroplasts 9201
    - heat shock proteins 645, 11869
    - NAD(P)H-plastoquinone-oxidoreductase 12465

Gene expression *cont.*
Spinacia oleracea cont.
  nitrite reductase 4037
  photosynthesis 8310, 12977
  plastocyanins 7201
  ribulose-bisphosphate carboxylase activase 5155
  sucrose phosphate synthase 3050, 6256
  superoxide dismutase 9522
stems 10041-10042
stress 1123, 11187
  books 2266
  reviews 8780-8782
superoxide dismutase 11187
  reviews 8780, 8782
techniques 1016, 3485, 7607, 9989, 11193
Tradescantia paludosa, pollen 2176, 12247
Trifolium subterraneum
  injuries 12816
  naringenin-chalcone synthase 12816
  nutritive value 8133
  proteins 8133
  Rhizobium 12816
triticale, heat shock proteins 11413
Triticum, apocytochrome *b* 142
Triticum aestivum 156, 3573, 7738, 10060
  abscisic acid 155, 3593, 8641
  adenosinetriphosphatase 2060, 10088
  S-adenosyl-L-homocysteine hydrolase 11355
  aluminium 3646, 11355
  α-amylase 155, 8900
  chlorophyll *a/b* binding protein 5858
  cold 187
  cold resistance 8919
  cysteine synthase 2458
  dormancy 12523
  endosperm 2483, 8900
  enzymes 1247
  gibberellins 155
  glutenins 5860, 7778
  growth regulators 155, 3593
  heat shock 11355
  heat shock proteins 2457, 11413
  histones 188, 1276, 7737, 11355
  light 187
  meiosis 7748
  metallothionein 186
  nucleolus organizer 3592
  photosynthesis 5868
  plant embryos 3593
  proteins 2483
  puroindolines 8882
  salinity 2523
  sprouting 12523
  toxic substances 3646
  trypsin inhibitors 2427
tubulin 10039
Vicia faba
  albumins 4199
  cyclophilin 10500
  nodulation 532
  nodulins 4998
  sucrose synthase 2879, 4998
Vicia hirsuta, nodulation 11681
Vicia narbonensis, albumins 4199
Vicia sativa, nodulation 521
Vigna angularis, chitinase 9440
Vigna radiata
  acyl-CoA desaturase 11783
  calmodulin 8225
  late embryogenesis abundant proteins 11783
Vigna unguiculata 581
  cowpea mosaic comovirus 2938
  Rhizobium 10549
viruses 6670
Vitis vinifera
  enzymes 8429
  flavonoids 8429
  stilbenes 8429
Zea
  development 10264
  inflorescences 10264
  spikelets 10263
Zea mays 4820, 5846, 6886, 10238, 11443, 12656

Gene expression *cont.*
Zea mays cont.
  abscisic acid 324, 1420, 5974, 7919, 11453
  Agrobacterium tumefaciens 2670
  alcohol dehydrogenase 2199, 5985, 7881, 9148, 10233, 10236, 10288-10289, 10291
  anoxia 5985, 10288-10289
  anthocyanins 3712, 3722, 3749-3750, 4439, 5833, 5974, 7882, 10235, 11461
  auxin binding proteins 312
  calmodulin binding proteins 4812
  carotenoids 9115
  catalase 3764, 4831, 4833, 5984, 9029
  chlorophyll 5962, 6894
  Cochliobolus carbonum 1467
  α-coixin 6883
  cold 9148
  cold resistance 5984, 10290
  colour 3747
  cystatin 313
  cysteine endopeptidase 11440
  cytochrome monooxygenase 10240
  cytochrome-*c* oxidase 314, 9148
  cytoplasmic male sterility 3746
  development 2681, 3711, 7882, 7915, 10264
  DNA binding proteins 3721, 6883
  drought resistance 1420
  endosperm 3754, 9096
  extensin 3711
  flavonoids 9028
  flooding 10291
  flowers 2682
  germination 7935
  1,4-α-glucan branching enzyme 10270
  glucose-1-phosphate adenylyltransferase 5973
  β-glucosidase 7916
  glutamate-ammonia ligase 316
  glutathione transferase 9168
  glycoproteins 9200
  growth regulators 324, 5974
  heat shock 12466
  heat shock proteins 7951, 9019-9021
  hydrogen peroxide 5984
  hydroxyproline-rich proteins 3711
  hypoxia 2199, 7955, 10288
  inflorescences 2681, 10264
  isoenzymes 9099
  light 3750
  ligules 7920
  luciferase 10236
  methyltransferases 325
  mutations
    endosperm 9084
    glucose-1-phosphate adenylyltransferase 9084
  NAD(P)H-plastoquinone-oxidoreductase 12465
  organelles 9096
  pathogenesis-related proteins 11500
  peroxidases 9099
  phlobaphene 9028
  phosphoenolpyruvate carboxylase 12466, 12674
  phosphoproteins 7919
  photosynthesis 331, 5962, 12471
  plant embryos 5960, 7917, 7919, 7935, 11453
  pollen 3743, 5834, 11430
  pollen germination 4824
  polygalacturonase 2673
  polyubiquitin 9022
  profilins 310
  proteinase inhibitors 11500
  pyruvate,orthophosphate dikinase 10273
  ribulose-bisphosphate carboxylase 12466, 12471, 12674
  roots 325
  seedlings 5984
  seeds 5974, 9090-9091, 10256, 11461
  spikelets 10263
  stress 3743, 5986
  sucrose synthase 10291

Gene expression *cont.*
Zea mays cont.
  superoxide dismutase 3764, 4831, 10237
  tissue culture 4833
  translocators 4816
  transposable elements 3054, 3718, 3729, 4044, 4821, 5965, 7888, 7891, 7898, 7904, 9049, 11430, 13366
  tubulin 3708, 3710, 3719
  β-tubulin 5954
  ubiquitin 1402, 9023-9024
  variegation 9090-9091, 10256
  vivipary 5974, 11453
  zein 3715, 3754, 5971, 9089, 9131, 10271
Zinnia elegans 4416
  cell culture 4417
Gene flow 51, 1175, 4600, 12451
Acer saccharum 7382
Amphicarpaea bracteata, Synchytrium decipiens 597
Astrocaryum mexicanum 979
Brassica campestris, turnip rape 3202
Brassica napus, rape 6354, 8478
Carapa guianensis 13281
Cucumis melo, cucumber mosaic cucumovirus 13033
genetic engineering, mathematics 87
Hordeum spontaneum, mathematics 8845
Lathyrus latifolius 488
Linum usitatissimum, flax 12451
Pennisetum glaucum 12700
Pinus sibirica, isoenzymes 4364
Primula veris 1000
Prunus dulcis 1922
Quercus macrocarpa 9784
Quercus petraea 8592
  mathematics 8845
Quercus pubescens 8592
Quercus pyrenaica 8592
Quercus robur 8592
  mathematics 8845
selection 4607
Solanum dulcamara 11811
Solanum nigrum 11811
Solanum tuberosum 6354, 11811, 12929
statistics 8846
Gene location 7666
(*see also* Linkage)
Aegilops searsii 7825
Aegilops squarrosa
  chromosome pairing 12470
  Mayetiola destructor 11369
Aegilops triaristata
  Puccinia graminis 12583
  Puccinia recondita 12583
Aegilops × *Triticum*
  chromosome pairing 12470
  Mayetiola destructor 11369
  Puccinia graminis 12583
  Puccinia recondita 12583
Arabidopsis thaliana
  abnormal development 7643
  Albugo candida 1169
  dormancy 7643
  flowering 3525
  Peronospora parasitica 1169, 3530
  seeds 7643
  vernalization 3525
Avena nuda, Puccinia coronata 6866
Avena sativa, Puccinia coronata 11404
Avena wiestii, Puccinia coronata 6866
Beta vulgaris
  beetroots 10913
  fodder beet 10913
  sugarbeet
    lethals 12113
    male sterility 12113
    ribosomal RNA 13184
Bromus secalinus
  abscisic acid 12520
  dormancy 12520
  growth regulators 12520
cereals, enzyme inhibitors 11284
Elymus elongatus
  flooding 3888
  salinity 8081
Elymus × *Triticum,* isoenzymes 1293
Gossypium hirsutum 7409

- *Hordeum*, taxonomy 7036
- *Hordeum murinum*, hordein 8955
- *Hordeum pusillum*, hordein 8955
- *Hordeum spontaneum*, proteins 12606
- *Hordeum vulgare* 2584
  - amylase inhibitors 1341
  - α-amylase 8956
  - barley mild mosaic bymovirus 4781
  - barley yellow mosaic bymovirus 4781
  - calcium binding proteins 10164
  - calreticulin 10164
  - chlorophyll 1363, 2600
  - *Diuraphis noxia* 8972
  - dormancy 12599
  - elongation factors 272
  - *Erysiphe graminis* 12626
  - growth period 10173
  - habit 10173
  - hordein 275
  - ligules 12603
  - lipid transfer proteins 3668
  - morphology 2606
  - photosynthesis 2430
  - proteins 12606
  - yield components 10173
- *Hordeum* × *Leymus*, taxonomy 7036
- *Leymus*, taxonomy 7036
- *Lolium multiflorum*, senescence 12787
- *Lycopersicon esculentum*
  - isoenzymes 8337
  - *Pseudomonas solanacearum* 13016
  - salinity 8337
- *Lycopersicon pennellii*
  - isoenzymes 8337
  - salinity 8337
- *Oryza* 11575
- *Oryza sativa* 12749
  - aldehyde-lyases 12724
  - catalase 3810
  - development 393
  - height 11584
  - isoenzymes 6031
  - oryzacystatin 12724
  - ribosomal RNA 11560
  - *Xanthomonas oryzae* 6051
- *Petunia hybrida*, dihydrokaempferol 4-reductase 13368
- *Phaseolus coccineus*, polygalacturonase-inhibiting protein 5022
- *Phaseolus vulgaris*, polygalacturonase-inhibiting protein 5022
- *Pinus densiflora*, RNA 4362
- *Pinus thunbergii*, RNA 4362
- *Pisum sativum*
  - clover yellow vein potyvirus 8203
  - pea seed-borne mosaic potyvirus 8203
  - trypsin inhibitors 5054
  - white lupin mosaic potyvirus 8203
- *Psathyrostachys*, taxonomy 7036
- *Scilla scilloides*, ribosomal DNA 12267
- *Secale cereale*
  - copper 12477
  - iron 12477
  - isoenzymes 7871
  - nutrients 12477
  - secalins 4796
- *Secale* × *Triticum*, chromosome pairing 12470
- *Silene pratensis*, ribosomal DNA 12250
- *Solanum spegazzinii*
  - *Globodera pallida* 12946
  - *Globodera rostochiensis* 5117
- *Solanum tuberosum*
  - colour 5096
  - flowers 5096
  - *Phytophthora infestans* 7166
- *Triticum*, chromosome pairing 1282
- *Triticum aestivum*
  - abscisic acid 12520
  - aluminium 10065
  - α-amylase 11326
  - chlorophyll *a/b* binding protein 11311
  - chromosome pairing 1282
  - compatibility 12491
  - cytoplasmic male sterility 12502
  - deoxyribonuclease 7767
  - *Diuraphis noxia* 10152
  - dormancy 12520
  - drought resistance 238, 11352
  - endosperm 2483
- *Triticum aestivum cont.*
  - esterases 12535
  - glucose-1-phosphate adenylyltransferase 185
  - growth regulators 12520
  - gynoecium 203
  - height 10099
  - *Mayetiola destructor* 11369
  - phosphoenolpyruvate carboxylase 11311
  - photosynthesis 2430
  - phytochrome 11311
  - proteins 2483
  - *Puccinia graminis* 12583
  - *Puccinia recondita* 2562, 12501, 12583
  - ribulose-bisphosphate carboxylase 11311
  - salinity 8081
  - spikelets 11325
  - *Tilletia indica* 6773
  - tissue culture, reviews 221
  - toxic substances 10065
  - *Ustilago segetum* 2549
  - vernalization 2484
- *Triticum dicoccum*, α-amylase 11326
- *Triticum durum*
  - α-amylase 11326
  - gliadin 4713
  - glutenins 4713
  - *Puccinia graminis* 12583
  - *Puccinia recondita* 12583
- *Zea* 7949, 9142
- *Zea mays* 7892-7893, 7949, 9031, 9142
  - carotenoids 9042
  - cytoplasmic male sterility 12670
  - development 332, 9085-9086
  - endosperm 7903, 9079, 9081, 9132
  - growth period 5969
  - height 5969, 10259
  - inflorescences 7926, 7934
  - leaves 7901, 7905, 7926, 9038, 9086, 9094
  - male sterility 9074
  - morphology 3756
  - seedlings 9079
  - seeds 9085
  - *Setosphaeria turcica* 11504
  - stems 9086
  - transposable elements 9040
  - ubiquitin 9044
- *Zea parviglumis*, morphology 3756

Gene mapping 46, 2336, 2339, 2367
(*see* Molecular genetics)

- *Aegilops* 7692
- *Aegilops squarrosa* 181, 6813-6814, 7698-7703, 7734, 7739
  - *Heterodera avenae* 7831
- *Agaricus bisporus* 1066
- *Arabidopsis thaliana* 61, 64, 1156, 2351, 5769, 5774, 7616, 11228, 12405
  - adenosinetriphosphatase 8811
  - anthocyanins 12421
  - calcium binding proteins 8811
  - chloroplasts 8811
  - development 12421
  - growth period 7649
  - light 12421
  - *Pseudomonas syringae* 3529
  - transposable elements 2353
- *Beta vulgaris*
  - sugarbeet 12113
    - cytoplasmic male sterility 9706
    - ribosomal RNA 13184
- *Brassica oleracea*
  - broccoli 10640
  - Brussels sprouts 10640
  - cauliflowers 10640
- cereals 3574, 5840
- conifers 12211
- crops 4573
  - pathogens 3067
- databases 4556
- *Elymus elongatus* 7035
  - abscisic acid 7031
- *Glycine max* 6124
  - auxins 10463
- grain legumes 8132
- heat shock, reviews 2305
- *Hordeum spontaneum* 7837
- *Hordeum vulgare* 1346-1347, 5907, 6728, 6822, 6824, 7698-7702, 7725, 7837-7838, 10173
  - aminopeptidases 7836
  - α-amylase 7836
  - esterases 7836
  - glucose-1-phosphate adenylyltransferase 6834
  - growth period 6823
  - height 6823
  - hordein 7836
  - *Puccinia graminis* 11395
  - *Puccinia striiformis* 8968
  - quantitative traits 4770
  - water soluble proteins 7836
- *Lactuca sativa* 12981
  - *Plasmopara lactucae-radicis* 8313
- *Lens culinaris*, isoenzymes 8204
- *Lycopersicon chilense*, tomato yellow leaf curl bigeminivirus 9553
- *Lycopersicon chmielewskii*
  - quality 8335
  - sucrose 677
- *Lycopersicon esculentum* 12995
  - abscission 7211
  - development 8331
  - *Fulvia fulva* 3070-3071, 8341
  - *Meloidogyne* 682, 5191
  - quality 8335
  - roots 8331
  - tomato yellow leaf curl bigeminivirus 9553
  - transposable elements 10655
- *Lycopersicon hirsutum*, sucrose 677
- *Lycopersicon pennellii* 12995
- *Lycopersicon peruvianum*, *Meloidogyne* 5191
- *Malus pumila* 10640
- *Manihot aesculifolia* 3020
- *Manihot esculenta* 3020
- *Medicago sativa* 7048
- *Musa* 5311
- *Nicotiana plumbaginifolia* 12131
- *Nicotiana tabacum*, transposable elements 919
- *Oryza* 3809
- *Oryza australiensis*
  - growth period 8057
  - *Nilaparvata lugens* 8057
- *Oryza latifolia* 12722
- *Oryza officinalis* 12716
- *Oryza sativa* 2728, 3572, 3809, 6969, 8006, 8009, 9198, 10353, 10355-10356, 11566-11567, 11572, 12716, 12722
  - databases 8007
  - growth period 8057
  - *Magnaporthe grisea* 12768
  - mitochondria 1526
  - multiple genes 11554
  - *Nilaparvata lugens* 8057
  - *Orseolia oryzae* 7012
- *Petunia* 13367
- *Petunia hybrida* 13367
  - alcohol dehydrogenase 1014
- *Pharbitis nil*
  - dihydrokaempferol 4-reductase 8675
  - flowers 8675
- *Phaseolus vulgaris*, *Colletotrichum lindemuthianum* 6167
- *Picea abies* 12219
- *Pinus elliottii*, *Cronartium fusiforme* 8632
- *Pinus pinaster* 12213
- *Pinus taeda* 12210-12211
- *Pisum sativum* 8199
  - *Erysiphe pisi* 12902
- plants, reviews 9974
- *Populus balsamifera* 5536
- *Prunus persica* 4140
  - isoenzymes 7279
  - morphology 7279
- quantitative traits 6661, 8828
  - multivariate analysis 6685
- *Raphanus sativus*
  - DNA binding proteins 9493
  - ribosomal DNA 9493
- reviews 41
- *Saccharum spontaneum* 2005, 3259, 8512
- *Secale cereale* 5841, 6728, 7698, 7700, 7702-7703, 8980-8981

Secale cereale cont.
  accessory chromosomes 2648
    Heterodera avenae 6871
  sexual reproduction 12305
  Solanum tuberosum
    Globodera rostochiensis 11834
    Phytophthora infestans 11834
    potato X potexvirus 11834
    potato Y potyvirus 11834
  Sorghum bicolor 7900, 7975-7976
  Sorghum propinquum 7975
  stress, reviews 2305
  transposable elements 1127
  triticale 7692
  Triticeae 3574, 7705
  Triticum, chromosome pairing 1282
  Triticum aestivum 181, 3572, 5841, 6813, 7035, 7692, 7698-7703, 7725, 7729, 7733-7734, 7739, 7811, 12496
    abscisic acid 7031
    chromosome pairing 1282
    colour 12534
    databases 7735
    dormancy 12534
    gliadin 7730
    Puccinia recondita 7812
    restriction fragment length polymorphism 3591
    seeds 12534
    Tilletia indica 6773
  Triticum spelta, Puccinia recondita 7812
  Vaccinium darrowii 7284
  Vaccinium elliottii 7284
  Vicia pisiformis 12819
  Zea, seeds 328
  Zea mays 3572, 3709, 7879-7880, 7900, 9014, 9026, 10228, 10230, 10244, 11498, 12662
    development 9046
    Gibberella zeae 9152
    height 10260-10261
    pollen germination 9071
    proteins 7942
    quantitative traits 11442
    seeds 328
    Setosphaeria turcica 5988
    starch 7942
Genes (*see* Genetics; Multiple alleles; Multiple genes)
Genetic distance 4618, 8830
  Abies alba, isoenzymes 8643
  Aegilops 10078
  Aegilops × *Triticum* 10078
  Allium fistulosum, isoenzymes 12967
  Allium sativum, bulbs 9511
  Arabidopsis thaliana, restriction fragment length polymorphism 2354
  Avena sativa 7865
  Avena sterilis, isoenzymes 3689
  Brassica campestris, turnip rape, yield components 1939
  Brassica juncea 8471
    yield components 1939
  Brassica napus, rape 8470
  Buchloe dactyloides, random amplified polymorphic DNA 2809
  Citrus 5316
  computer programming 1172
  crops 11489
  evolution 1222
  Festuca pratensis, isoenzymes 3878
  Glycine max 10472
  Juglans regia, isoenzymes 9646
  Liquidambar, isoenzymes 13284
  Lolium, isoenzymes 3878
  molecular genetics 6660
  Musa 787
  Nothofagus, isoenzymes 11019
  nucleotide sequences 11260
    computer programming 2372
  Oryza sativa 3811
    yield components 3837
  Phaseolus vulgaris, domestication 8176
  Pinus pumila, isoenzymes 4363
  Pinus sibirica, isoenzymes 4364
  Pisum sativum 553
    yield components 8189
  Primula veris 1000
  Pseudotsuga menziesii, isoenzymes 4380
  restriction fragment length polymorphism 12379
Genetic distance *cont.*
  ribosomal RNA 11261
  Saccharum officinarum 6438
  Taiwania cryptomerioides, isoenzymes 4383
  Triticum 10078
  Triticum aestivum 169, 6747, 10078, 12490
    soil pH 2520
  Triticum spelta 12490
  Vaccinium ashei, random amplified polymorphic DNA 4147
  Vigna, isoenzymes 9428
  Vigna unguiculata, isoenzymes 9428
  Zea mays 3713, 9018, 11435, 11489
    isoenzymes 4837
    restriction fragment length polymorphism 11433
Genetic drift 4599
  Astrocaryum mexicanum 979
  mathematics 4606
  mutations 4612
Genetic engineering 45, 51-52, 1122, 2322, 3055, 4562, 4577, 11180, 12378
(*see also* Genetic transformation; Molecular genetics)
  Actinidia deliciosa, cysteine proteinase 1909
  Amoracia rusticana, peroxidases 11123
  α-amylase, reviews 8803
  anthocyanins 1237
  apomixis 6667
  Arabidopsis thaliana 4579, 11209
    acyl-CoA desaturase 13232
    adenosinetriphosphatase 6671
    albumins 7621
    anthers 5363
    chaperonins 4591
    chlorophyll *a/b* binding protein 2356
    cold resistance 13232
    epoxide hydrolase 11205
    fertility 5363
    glyceraldehyde-3-phosphate dehydrogenase 10011
    heat shock proteins 8813
    histones 12398
    lipids 12382
    lipoxygenase 12407
    monosaccharide-H^+ symporter 11204
    oleosins 8812
    peroxidases 3511
    phenylalanine ammonia-lyase 11227
    phytochrome 4595
    plastocyanins 3520
    pollen 4593
    Pseudomonas solanacearum 11227
    source sink relations 7686
    sucrose transporter 10004
    water balance 11217
  Arachis hypogaea 9332
  Armoracia rusticana, peroxidases 4487, 5680
  Asparagus officinalis, pathogenesis-related proteins 10653
  Avena sativa 7639
    phytochrome 3285, 10201
  bacteria 6653, 9965
    reviews 35
  Bertholletia excelsa, albumins 4199
  Beta vulgaris
    sugarbeet 3270
      beet necrotic yellow vein furovirus 5435
      betaine-aldehyde dehydrogenase 12146
  bibliographies 12385
  books 12322-12323
  Brassica napus
    rape 3211
      acyl-CoA desaturase 13122
      chaperonins 825
      erucic acid 5373
      fatty acids 5373, 6348
      isocitrate lyase 8477
      lipids 12382
      malate synthase 8477
      napin 4204
      oleosins 6340
      pollen 8477
  Brassica oleracea, self incompatibility 3041
  breeders' rights 6644
  Catharanthus roseus
    aromatic-L-amino-acid decarboxylase 8732
    cytochrome P-450 8733
    tryptophan decarboxylase 4470
  colour 1237
  Coprinus cinereus, reproduction 4500
  Craterostigma plantagineum, drought resistance 916
  crops
    diseases 9963
    herbicides 1119, 12376
    hybrid seed production 1233
    male sterility 1233
    tomato spotted wilt tospovirus 9967
    viruses 8789, 9970
  Cucumis sativus 5466
    ascorbate oxidase 10705
    chitinase 3283
  cytoplasmic male sterility 1183
  Daucus carota 10612
  Dendranthema grandiflora, naringenin-chalcone synthase 4426
  diseases 3496, 5733
    books 5704
  Erythrina caffra, trypsin inhibitors 13335-13336
  fatty oil plants 3187
    fatty acids 8464
    oils 9658
  Flaveria pringlei, translocators 4816
  Flaveria trinervia, translocators 4816
  flavonoids 1237
  flowers 1237, 5749
  forest trees 7436
  fruit crops, viruses 7247
  fungi 6658
  gene flow, mathematics 87
  Glycine max 11209, 12832
    auxins 6128
    β-conglycinin 6123, 9335
    glycinin 3942
    growth regulators 6128
    heat shock 5767
    nodulation 2870
    nodulins 2870
    seeds 6123
    tubulin 7079
  Gossypium, insects 2348
  Gossypium hirsutum
    Heliothis virescens 3317
    insects 6523
    quality 6523
  grain legumes, nutritive value, reviews 4979
  Helianthus annuus
    helianthinin 10856
    proteins 8133
  herbicides 6667, 7594, 12375
  Hordeum vulgare 4735, 12478
    α-amylase 8803
    β-glucanase 2582, 266
    hordothionins 5463
    pathogenesis-related proteins 5463
    photosynthesis 2603
    ribosome inactivating proteins 6500
    starch 12396
    thioneins 8953
    trypsin inhibitors 2427
  Humulus lupulus 11115
  Hyoscyamus niger, hyoscyamine (6*S*)-dioxygenase 13382
  insects 2316, 4551
  legislation 6644, 9958
  lipids 4567
  Lupinus angustifolius
    asparaginase 11685
    aspartate aminotransferase 8118
  Lycopersicon esculentum 2342
    ACC synthase 10663
    Bacillus thuringiensis 683
    ethylene 10663
    fruits 4062
    insects 2348
    isopentenyl transferase 3053
    legislation 11877
    pectinesterase 666, 13011
    pollen 8330
    polygalacturonase 666, 7226, 13011
    quality 4070

Lycopersicon esculentum cont.
  ripening 2348, 4062, 4070, 7226, 9542, 10663, 13011
lysozyme, reviews 35
lytic peptides 4549
male sterility 6667
Malus pumila, ACC oxidase 732
Medicago sativa, caffeic acid *O*-methyltransferase 8559
Medicago truncatula
  nodulation 3918
  Rhizobium 3918
Nematoda 3482
neomycin phosphotransferase 5755
Nicotiana plumbaginifolia
  adenosinetriphosphatase 8540
  cold resistance 6084
  extensin 4313
  β-glucanase 6479
  superoxide dismutase 6084
Nicotiana sylvestris, peroxidases 1831
Nicotiana tabacum 2342
  acid phosphatase 10465
  alfalfa mosaic alfamovirus 5472
  carbonate dehydratase 12123
  chitinase 3278, 3283
  extensin 4291
  metabolism 8552
  monosaccharide transporters 911
  pathogenesis-related proteins 4305
  Peronospora tabacina 5464
  phosphate 10465
  phytochrome 13205
  Phytophthora nicotianae 5464
  protoplasts 10465
  Rhizoctonia solani 5464
  ribulose-bisphosphate carboxylase 12125
  roots 13211
  source sink relations 7686
  sucrose 10465
  tobacco etch potyvirus 9733
  tobacco mosaic tobamovirus 5471-5472
  tomato golden mosaic bigeminivirus 5477
  viruses 5477
Nicotiana tomentosiformis
  β-glucanase 9730
  pathogenesis-related proteins 9730
ornamental herbaceous plants
  colour 13330
  flowers 13330
ornamental plants
  colour 2151, 9836
  flowers 2151
Oryza sativa 6969
  glutelins 11556
  glycoproteins 9200
  histones 396
  oryzacystatin 6023
pathogens 4549
  reviews 33
pests 1117, 5733
  books 5704
Petunia 7600
Petunia hybrida
  colour, reviews 1019
  dihydrokaempferol 4-reductase 13368
  flavonoids, reviews 1019
  ribulose-bisphosphate carboxylase 11880
Phaseolus vulgaris, phaseolin 2885, 13206
photosynthesis 3490
physiology 3490
Phytolacca americana
  cucumber mosaic cucumovirus 4480
  potato X potexvirus 4480
  potato Y potyvirus 4480
Pisum sativum
  albumins 2907
  aspartate-ammonia ligase 6172
  ferredoxin 13210
  glutamate-ammonia ligase 6174
  glycerol-3-phosphate acyltransferase 8187
  light 13210
  superoxide dismutase 6192
  Verticillium 8273
  vicilin 6107
Populus 7436
pyruvate kinase 5750
reviews 55
ribulose-bisphosphate carboxylase 1135, 5750
Ricinus communis, isocitrate lyase 6478
Rosa
  colour 13330
  flowers 13330
Saccharum officinarum, viruses 6454
salinity 5728
secondary metabolites 7601
Sesbania rostrata
  leghaemoglobin 486, 8122, 12822
  nodulation 12822
Solanum tuberosum 2342, 4577, 9455
  carbohydrates 6236
  DNA binding proteins 13209
  epoxide hydrolase 11800
  pathogens 11835
  ribosomes 5089
  source sink relations 7686
  ubiquitin 5089
Spinacea oleracea, plastocyanins 7202
Spinacia oleracea
  betaine-aldehyde dehydrogenase 12146
  nitrite reductase 4037
  photosynthesis 8310, 12977
starch 12396
techniques 12322-12323
  books 13422
tobacco mosaic tobamovirus 6662
Triticum aestivum 2252, 12478
  abscisic acid 8641
  adenosinetriphosphatase 2060, 10088
  chlorophyll *a/b* binding protein 5858
  cysteine synthase 2458
  histones 1276
  stress 7792
viruses 36, 2313, 6653, 9966
Vitis vinifera
  phytoalexins 6499
  resveratrol 6499
  trihydroxystilbene synthase 6499
Zea mays 4820, 6884, 10238, 11443
  alcohol dehydrogenase 10233
  anthocyanins 10239
  dihydrokaempferol 4-reductase 4441, 9881
  DNA binding proteins 12658
  endosperm 7889
  1,4-α-glucan branching enzyme 10270
  glucose-1-phosphate adenylyltransferase 3724
  phosphoenolpyruvate carboxylase 12674
  pyruvate,orthophosphate dikinase 10273
  reviews 4813
  ribulose-bisphosphate carboxylase 12674
  translocators 4816
  transposable elements 919, 3054, 3505, 3718, 4044, 4821, 5170, 7888, 7891, 7898, 7904, 13366
  tubulin 3710
  ubiquitin 1402
  zein 3715, 12661
Genetic load 1206
  Cocos nucifera 6378
Genetic markers 1129, 1170, 2344, 7666, 11196
  Aegilops × Triticum, quality 10115
  Allium, isoenzymes, reviews 145
  Arabidopsis thaliana
    herpes simplex virus 7619
    plant embryos 7633
    thymidine kinase 7619
  artificial selection
    mathematics 4603
    reviews 92
  Avena sativa, Puccinia coronata 11404
  Beta vulgaris
    sugarbeet 11181
      cytoplasmic male sterility 10908
      isoenzymes, reviews 145
  Brassica 12029
    isoenzymes, reviews 145
  Capsicum annuum 698
Genetic markers *cont.*
  Capsicum annuum cont.
    isoenzymes 701
  Capsicum baccatum, isoenzymes 701
  Capsicum chacoense, isoenzymes 701
  cereals 2426
  crops 2343
    diseases 3480
  databases 9985
  diseases 4561
  forest trees 7437, 8584
  Glycine max 2858
    isoenzymes 11704
  Gossypium hirsutum
    leaves 10954
    morphology 6513
    plant glands 10954
    quality 7415
    yield components 6513
  Hordeum vulgare 2584, 7838
    anther culture 12612
    Diuraphis noxia 8972
    hordein 1355
    isoenzymes, reviews 145
    quantitative traits 12607
  isoenzymes 6687
  Juglans, isoenzymes 9645
  Larix
    hybridization 9823
    isoenzymes 9823
  linkage 4617, 4619-4620, 7662
  Lycopersicon 10683
  Lycopersicon esculentum
    isoenzymes 8337
    Pseudomonas solanacearum 8338, 13016
    quantitative traits 11891
    salinity 8337, 11891
    spectinomycin adenyltransferase 11880
    streptomycin 11880
    transposable elements 7210
    variegation 11880
  Lycopersicon pennellii
    isoenzymes 8337
    salinity 8337
    transposable elements 7210
  Lycopersicon pimpinellifolium
    quantitative traits 11891
    salinity 11891
  Malus pumila 9568
  Musa, genomes 8437
  Nicotiana tabacum
    spectinomycin adenyltransferase 11880
    streptomycin 11880
    variegation 11880
  Oryza glaberrima, variety classification 12738
  Oryza sativa 10381, 11567
    fertility 3815
    height 12740
    Magnaporthe grisea 7002
    quality 8032
    random amplified polymorphic DNA 11564
    variety classification 12738
    wide hybridization 3815
  Penstemon, isoenzymes 5640
  Phaseolus vulgaris, bean common mosaic potyvirus 11749
  Pinus pinaster 7437
  Populus 7437
  quantitative traits 5790, 8828, 11197, 12427
    mathematics 4621
  reviews 91, 7599, 9984-9985
  satellite DNA 7663
  Secale cereale 10207
    cytoplasmic male sterility 11410
    isoenzymes, reviews 145
    secalins 6867
  Silene latifolia
    pollen competition 2181
    sex 2181
  Solanum goniocalyx 1781
  Solanum phureja 1781
  Solanum tuberosum 1781, 2343, 9458
    isoenzymes, reviews 145
  techniques 6687, 7599, 9984
  triticale, secalins 6867

Genetic markers *cont.*
- *Triticum,* quality 10115
- *Triticum aestivum*
  - cold resistance 11344
  - genomes 1315
  - gliadin 209, 1314-1315, 11344
  - glutenins 209, 11344, 12548
  - isoenzymes, reviews 145
  - *Pseudocercosporella herpotrichoides* 2534
  - *Puccinia graminis* 11344
  - quality 1314, 11344, 12548
  - secalins 6867
- *Triticum durum*
  - gliadin 1315, 6759
  - quality 1315, 6759
- *Vigna mungo*
  - acid phosphatase 1765
  - esterases 1765
  - isoenzymes 1765
  - peroxidases 1765
- *Vigna radiata*
  - acid phosphatase 1765
  - esterases 1765
  - isoenzymes 1765
  - peroxidases 1765
- *Zea*
  - morphology 2684
  - quantitative traits 2684
- *Zea mays*
  - cytoplasmic male sterility 9075
  - height 9037
  - isoenzymes, reviews 145
  - morphology 2684
  - *Ostrinia nubilalis* 9037
  - quantitative traits 2684, 9051
  - transposable elements 3730
- *Zea mexicana*
  - morphology 2684
  - quantitative traits 2684

Genetic resources 13-14, 16-18, 20, 131, 1085-1099, 1104, 2277-2278, 2284-2285, 2290, 3462-3466, 4527-4537, 4540-4542, 5716, 6636, 6638-6641, 6643, 6708, 7580, 8766, 8768, 8771-8772, 8853, 9953, 9955, 9957, 11145-11149, 11151-11152, 11154, 12336, 12338-12339, 12341-12342, 12345-12347, 12365, 13418

(*see also* Gene banks)
- *Abelmoschus* 1871-1873, 1876-1878, 1881, 1888-1889
- *Abelmoschus caillei* 1869
- *Abelmoschus esculentus* 135, 1868-1875, 1878, 1882, 1888-1889, 2259
  - databases 1879
- *Abutilon* 7406
- *Actinidia arguta* 6293
- *Aegilops* 2446, 7691, 7719, 7795, 7822-7823
  - databases 9263
- *Aegilops squarrosa* 7777
- *Aegilotricum* 7691
- Agavaceae 13248
- *Agave* 13248
- *Agave fourcroydes* 13248
- *Agropyron* 7691
- *Alchemilla* 4529
- *Allium* 12966
  - reports 6248
- *Allium cepa* 6247, 7189, 9497-9498
- *Alnus acuminata* 9797
- *Andropogon gayanus* 8085
- *Apium graveolens* 4041
- *Arachis* 6411-6414, 13158
- *Arachis hypogaea* 4249, 6104, 6722, 12075, 12088
- *Arachis pintoi* 4248
- *Arnebia euchroma* 8767
- *Avena* 10197-10199
  - reports 6857
- *Avena nuda* 10196
- *Avena sativa* 4785
- *Avena sterilis* 5929
- bamboos 9944
- *Beta* 2025-2028, 3267
  - databases 10902
  - gene banks 10902
- *Beta vulgaris,* sugarbeet 6434
- biotechnology 1101
- *Boehmeria nivea* 12170
- books 1079, 2272, 3456, 13417
- *Brassica,* databases 7318
- *Brassica campestris* 5345
  - turnip rape 6434
- *Brassica carinata* 5345
- *Brassica juncea* 5345
- *Brassica napus* 5345
  - rape 6434
- *Brassica nigra* 5345
- *Brassica oleracea,* cabbages 6247
- *Brassica pekinensis* 6247
- breeders' rights 11160
- *Bromus auleticus*
  - quality 7038
  - seasonal growth 7038
- *Cajanus cajan* 6722, 8211
- *Capsicum annuum* 4084, 10691
- *Capsicum frutescens* 4084
- *Castanea crenata* 6293
- catalogues 3468, 11155
- *Cenchrus ciliaris* 3892
- cereals 2419, 3569, 12467
  - reports 134, 4513
- *Chaenomeles speciosa* 6298
- *Cicer* 1747
- *Cicer arietinum* 5061-5062, 6105, 6113, 8131, 9413
- *Cicer canariense* 2922
- *Cicer macranthum* 565, 2920
- *Cicer microphyllum* 565, 2920
- *Cicer nuristanicum* 565, 2920
- *Citrullus lanatus* 6247
- *Citrus* 4175, 6322-6323, 7302
- *Clematis* 2153
- *Cocos nucifera* 855, 3225-3230, 3233, 6372-6373, 6384
- *Coffea* 4284
- *Coffea canephora* 4282
- *Colocasia esculenta* 12960
- competitive ability 1
- conifers 12205
- *Corchorus olitorius* 7406
- *Crataegus* 5242
- crops 2, 1217, 1226-1227, 2288-2289, 3469, 6721, 7685, 8773, 9952, 9954, 10044, 11144, 11150, 11153, 12344
  - reports 134
- *Crotalaria juncea* 7406
- *Cucumis* 5830, 11902
- *Cucumis melo* 6247, 11901
- *Cucumis sativus* 6247, 11901
- *Cucurbita* 11902
- *Cucurbita maxima* 10701
- *Cucurbita moschata* 10701
- *Cucurbita pepo* 10701
- Cucurbitaceae 5203, 11901
- *Cuphea* 6431
- *Dactylis glomerata* 6057, 10052, 12784
- *Dasypyrum villosum* 7691, 8084
- databases 12340, 12343
- *Dendranthema* 6559
- *Dianthus* 6559
- *Dichanthium* 461
- *Dioscorea* 6228
- *Elaeis guineensis* 6365
- *Eleusine coracana* 7988
- *Eragrostis tef* 463
- Ericaceae 4538
- *Eucalyptus,* books 7574
- *Euonymus nana* 5612
- fatty oil plants 2410
- *Festuca* 2797
- fodder legumes 6057, 6062, 6113, 7073
- fodder plants 1623, 6056, 9245, 12777
- forest trees 967-968, 2109, 3338, 4346, 6531, 7433, 7435, 9767-9769
  - books 12314
  - conferences 8757
- *Fragaria* 7287
- *Fragaria ananassa* 1902
- *Fragaria chiloensis* 1902
- *Fragaria multicipita* 8419
- fruit crops 728, 1226, 4165, 4167, 7245, 8376, 8769
- *Glycine max* 5829, 6104, 6118-6119, 10450, 10452, 11269, 11696, 12828
- *Glycine soja* 7087, 8767, 10450, 11721
- *Gossypium* 939, 12158
- *Gossypium barbadense* 13239
- *Gossypium hirsutum* 13238-13239
- grain legumes 2410
- grasses 6056-6057, 9186, 9954
  - databases 9263
- *Helianthus* 6356, 7347
- *Helianthus annuus* 6356
- *Helianthus tuberosus* 7184
- *Hevea brasiliensis,* yield components 12179
- *Hibiscus cannabinus* 2104, 7406
- *Hibiscus sabdariffa* 7406
- *Hordeum* 6816, 12589
- *Hordeum agriocrithon* 12588
- *Hordeum bulbosum* 7691
- *Hordeum murinum* 7691
- *Hordeum spontaneum* 2581
- *Hordeum vulgare* 285, 5839, 5902, 6817, 7689, 7832, 11380, 12586-12589, 12591, 12601, 13408
- *in vitro* culture 11249
- *Ipomoea batatas* 5132, 5829, 6228, 12953
- *Juglans regia* 9637-9639
- *Juglans sieboldiana* 6293
- *Juglans subcordiformis* 6293
- *Lablab purpureus* 496
- legislation 1105, 4544
- Leguminosae, databases 11694
- *Lens,* reviews 560
- *Lens culinaris* 1742, 6105, 6198, 8131
- *Leptadenia* 7406
- *Lilium* 6559
- *Linum usitatissimum,* flax 134
- *Liriope* 9886
- *Lolium perenne* 456, 11626
- *Lonicera caerulea* 6293
- *Lotus* 1668
- *Lycopersicon esculentum* 6247, 7208, 12993
- *Macroptilium* 6096
- *Malus* 8386
- *Malus baccata* 9567
- *Malus pumila* 6293, 9567
- *Malus sieversii* 9567
- *Mangifera* 4182, 13102
- *Mangifera indica* 5324, 13102
- *Manihot esculenta* 1804, 5829, 6228
- *Medicago* 6075
- *Medicago sativa* 6057, 9287
- medicinal plants 1227, 4528, 4530
- *Mentha* 6434
- *Metroxylon sagu* 2239
- multivariate analysis 1102, 3535
- *Musa* 4171
- *Musa lolodensis* 10800
- *Musa salaccensis* 10800
- *Myrica esculenta* 1921
- *Myrica rubra* 6293
- *Nelumbo* 7015
- *Nicotiana* 13221
- *Nicotiana tabacum* 907, 13221
- nut crops 4117
- *Olea europaea* 10052
- *Ophiopogon* 9886
- Orchidaceae 6559, 6591
- ornamental plants 13328
- *Oryza* 3793, 5839
- *Oryza rufipogon* 383
- *Oryza sativa* 382, 1509, 4880-4881, 6010, 10334, 10337-10338, 12706
  - databases 10336
  - history 6012
- *Papaver somniferum* 5660
- patents 1106
- *Pennisetum* 6722, 9186
- *Pennisetum glaucum* 1090, 1491, 6722, 7983, 11280
- *Phaseolus* 12871
- *Phaseolus lunatus* 12871
- *Phaseolus vulgaris* 496, 3964, 6104, 9384-9385, 12871
  - ideotypes 2889
- *Phoenix dactylifera* 1217
- *Phytolacca americana* 8767
- *Pilocarpus microphyllus* 12284
- *Pisum sativum* 134, 496, 6105, 8131
- *Populus nigra* 9787
- *Porteresia coarctata* 6011
- *Prunus*
  - reports 7265
  - cherries 9584
  - plums 13056

- *Prunus persica* 6293, 11967, 13056, 13067
- *Psidium guajava* 4189
- *Pyrus* 1894, 5235, 8391
- *Pyrus pyrifolia* 6293
- *Quercus ilex* 10052
- *Raphanus sativus* 6247
- reviews 19
- *Rhododendron* 6559
- *Rhododendron calendulaceum* 8659
- *Rhododendron maximum* 8659
- *Rhododendron mucronulatum* 2161
- *Rhododendron periclymenoides* 8659
- *Rhododendron prinophyllum* 8659
- *Ricinus communis* 6426, 7369, 10888
- *Rosa* 4407, 4529, 6559
- *Rubus* 6306, 13072
- *Saccharum* 6434
- *Saccharum officinarum* 5408, 9696
- *Saccharum spontaneum* 5408
- *Secale cereale* 12467
- *Sesamum* 5830
- *Sesamum indicum* 135, 870, 6427
- *Solanum* 13023
  - tuberous species 601, 2948, 8233, 10563, 11809
- *Solanum melongena* 6247, 13023
- *Solanum sessiliflorum* 5331
- *Solanum tuberosum* 601, 1793, 6228, 10563, 10592, 11791, 12927
  - history 612
- *Sorghum* 1473
- *Sorghum bicolor* 353, 6722, 7973, 9169, 11280
- spice plants 1227
- *Stylosanthes viscosa* 3931
- subtropical fruits 4168
- taxonomy 128
- temperate fruits 4116-4117
- *Theobroma cacao* 4285, 4287, 8538
  - catalogues 6472
  - databases 6472
- *Thinopyrum distichum* 1637
- trees 2109
- *Trifolium* 6085-6086, 7052, 11670
- *Trifolium repens* 4947, 6087, 8112
- *Trifolium subterraneum* 481
- *Trigonella foenum-graecum* 5671
- triticale 5940
- *Triticum* 166, 2446, 5839, 5852, 7719, 7741, 7777, 7795
  - databases 9263
- *Triticum aestivum* 167, 5852-5853, 7718, 7720, 7741, 8874, 11295, 11317, 12467, 12504
- *Triticum boeoticum* 7777
- *Triticum dicoccoides* 7689, 7717, 8769
- *Triticum dicoccum* 7776
- *Triticum durum* 134, 3640, 4667, 5876, 7689, 7768, 8891
- *Triticum monococcum* 7777
- *Triticum urartu* 7777
- tropical fruits 4168
- *Tulipa* 6559
- *Urena* 7406
- Vaccinieae 6306
- vegetables 1226, 4644, 5827
- *Vicia faba* 530-531, 6105, 8131
- *Vicia narbonensis* 4996
- *Vigna* 6218
- *Vigna angularis* 496, 6104, 6219
- *Vigna radiata* 496, 6218
- *Vigna unguiculata* 6104, 6215
- Vitidaceae 4153
- *Vitis* 4154, 9567
- *Vitis tiliifolia* 768
- *Vitis vinifera* 1069, 1907, 4154, 6309
- woody plants 967
- *Xanthosoma sagittifolium* 7188
- *Zea* 5830, 8998-8999, 9001
- *Zea mays* 134-135, 1225, 2668, 5829, 5946, 5950-5952, 6057, 6878, 6890, 9002, 9006, 11269, 11417, 12651
  - catalogues 5947
- *Zizania caduciflora* 7015

Genetic transformation 39, 50, 1144, 2326-2327, 2340, 3491, 4569, 5754, 5764, 11196, 12380, 12384
- *Actinidia deliciosa* 4163, 12004
- *Aegilops squarrosa* 2501
- *Agrobacterium* 5757, 12391, 12393

Genetic transformation *cont.*
- *Agrobacterium rhizogenes* 5758
- *Agrobacterium tumefaciens* 1121, 1147-1149, 2319, 2321, 5756, 8800
- *Agrocybe aegerita*, dihydroorotate dehydrogenase 7561
- *Agrostis alba* 6070
- *Agrostis stolonifera* 3894
- *Allium cepa* 4820
- *Amelanchier laevis* 4390
- amino acids 11189
- *Arabidopsis thaliana* 82, 3499, 3506, 3531, 5770, 6674, 7622, 7633, 11209, 11225, 12410, 12413
  - acyl-CoA desaturase 1154
  - *Agrobacterium tumefaciens* 7624-7625
  - cell division 9911
  - cold 5785
  - β-conglycinin 8147
  - cytochrome P-450 8733
  - cytosine deaminase 3498
  - development 393, 5782, 7648
  - flowers 7648
  - heat shock proteins 7655
  - herpes simplex virus 7619
  - histones 12398
  - leucyl aminopeptidase 11206
  - lipid transfer proteins 10010
  - phytochrome 3285, 4595, 7639, 10022
  - phytohaemagglutinin 79
  - plant embryos 3524
  - pollen 7635, 8330
  - ribulose-bisphosphate carboxylase 1161
  - thymidine kinase 7619
  - transposable elements 2353, 3505, 6579
  - tryptophan synthase β 58
  - tubulin 1153
- *Arachis hypogaea* 5400, 6417, 10875
  - phosphinothricin acetyltransferase 12077
  - tomato spotted wilt tospovirus 12077
- *Armoracia rusticana* 7559
- *Asparagus officinalis* 10651
- *Atropa belladonna*, hyoscyamine (6*S*)-dioxygenase 13382
- auxins 9995
- *Bacillus thuringiensis* 5745
- bacteria 12392
- *Beta vulgaris*
  - sugarbeet 895
    - chloroplasts 12387
    - glufosinate 10058
- bibliographies 12386
- *Boehmeria nivea* 959
- *Brassica napus*
  - rape 3211, 4206-4207, 5349, 5355, 7322, 9662
    - anthers 5363
    - fertility 5363
    - glufosinate 841, 6354, 10058
    - glufosinate acetyltransferase 7688
    - herbicides 841, 5380, 6354
    - male sterility 6345
    - oleosins 8812
    - phosphinothricin acetyltransferase 8478
- *Brassica oleracea*
  - broccoli 643, 12972
  - cabbages 643, 4207, 8303, 12972
  - kale 12971
- *Calanthe* 4454
- *Carya illinoinensis* 816
- catalase 11187
- cauliflower mosaic caulimovirus, reviews 1124
- cereals 7694
- chitinase, reviews 5731
- *Cicer arietinum* 566, 10531
- *Citrullus lanatus* 8370
- *Citrus reticulata* 13094
- *Coffea arabica* 902
- *Coprinus bilanatus*, reproduction 4500
- *Coprinus cinereus* 1065
- crops 1145, 1150
  - *Agrobacterium rhizogenes* 1229
  - *Bacillus thuringiensis* 9971-9972
  - diseases 9963

Genetic transformation *cont.*
- crops *cont.*
  - glufosinate acetyltransferase 7688
  - insects 5746
  - peptides 8802
  - proteins 8802
  - reviews 40, 2349
  - tomato spotted wilt tospovirus 9967
  - viruses 9968-9970
- *Cucumis melo* 4104
  - cucumber mosaic cucumovirus 13032-13033
  - zucchini yellow mosaic potyvirus 3090
- *Cucumis sativus* 13040
  - ascorbate oxidase 10705
  - cucumber mosaic cucumovirus 724
- *Cydonia* × *Pyrus* 3108
- cytokinins 9995
- databases 9985
- *Datura fastuosa* 5662, 10242
- *Daucus carota* 2006, 3014, 4014, 10612
  - glufosinate 9973
  - growth regulators 150
  - herbicides 9973
  - IAA 150
  - IBA 150
  - naringenin-chalcone synthase 10614
- *Dendranthema* 5628
- *Dendranthema grandiflora* 8671, 12248
  - colour 8680
  - flowers 8680
  - naringenin-chalcone synthase 4426, 8680
- *Dendrobium*
  - luciferase 13375
  - techniques 13375
- *Dianthus caryophyllus* 8673
- diseases 4548, 9995
- DNA binding proteins 10464
- *Doritis pulcherrima*
  - anthocyanins 13374
  - flowers 13374
- *Erica darleyensis* 12231
- *Eucalyptus dunnii*, rooting capacity 5530
- *Eucalyptus grandis*, rooting capacity 5530
- *Eucalyptus gunnii* 7440
- *Eucalyptus nitens*, rooting capacity 5530
- fatty oil plants
  - male sterility 2386, 11242
  - quality 13120
- *Festuca rubra*, phosphinothricin acetyltransferase 8073
- fodder legumes, reviews 10448
- forest trees 7436
- *Fragaria ananassa*, insects 4120
- glutathione reductase 11187
- *Glycine max* 1697, 2854, 9332, 10471, 12809, 12830, 12834
  - *Agrobacterium tumefaciens* 10490
  - protoplasts 505
- *Gossypium*, insects 5746
- *Gossypium hirsutum*
  - *Bacillus thuringiensis* 3330
  - *Heliothis virescens* 3317
- grain legumes, reviews 10448
- growth regulators 4568, 12381
- *Helianthus annuus* 5384
  - histones 7737
- *Helianthus tuberosus* 5384
- herbicides 8561
- *Hevea brasiliensis* 10988
- *Hibiscus cannabinus* 12172
- *Hordeum vulgare* 2424, 2951, 3804, 5905, 5908, 7706
  - α-amylase 11375
  - auxins 3495
  - dihydrokaempferol 4-reductase 3673, 2615
  - *Erysiphe graminis* 2629
  - β-glucanase 2582
  - growth regulators 3495
  - starch 12396
  - trypsin inhibitors 2427
- *Hordeum* × *Triticum* 7696
- *Hyoscyamus niger*
  - histones 396, 2220
  - hyoscyamine (6*S*)-dioxygenase 13382
- *in vitro* culture 9998
- *Ipomoea batatas* 5133

Genetic transformation *cont.*
- *Juglans regia, Bacillus thuringiensis* 8458
- *Lactuca sativa* 653
  - pathogenesis-related proteins 4305
  - transposable elements 4044
- *Larix decidua* 2148
- *Larix eurolepis* 2148
- *Larix laricina, Agrobacterium rhizogenes* 983
- *Larix leptolepis* 2148
- leaves 10464
- leghaemoglobin 10464
- *Linum usitatissimum,* flax 3333, 6525, 7422
- lipids 11191
- *Liquidambar styraciflua* 12197
- *Lolium perenne* 3804, 6065
- *Lotus corniculatus* 2847
  - dihydrokaempferol 4-reductase 8121
  - leghaemoglobin 486, 12822
  - nodulation 12822
  - nodulins 2870
  - tannins 1675, 8121
- *Lupinus*
  - nutritive value 8133
  - proteins 8133
- *Lupinus angustifolius,* asparaginase 11685
- *Lycopersicon,* β-glucuronidase 11884
- *Lycopersicon chilense,* tomato yellow leaf curl bigeminivirus 681, 10685
- *Lycopersicon esculentum* 663, 10656, 10658
  - ACC deaminase 673
  - anthocyanins 13003
  - auxins 8344
  - cytokinins 8344
  - flowers 7219
  - fruits 1836, 4062, 11883
    - reviews 9541
  - *Fulvia fulva* 3075, 6276, 6658
  - *Fusarium oxysporum* 8344
  - glufosinate acetyltransferase 7688
  - *Helicoverpa armigera* 683
  - isopentenyl transferase 3053
  - *Manduca sexta* 4076
  - pectinesterase 666, 10667
  - peroxidases 1831
  - pollen 13001
  - polygalacturonase 666, 11887
    - reviews 9541
  - proteinase inhibitors 6265
  - *Pseudomonas syringae* 4074-4075
  - quality 11887
  - reviews 11883
  - ripening 673, 1836, 3055, 4062, 11883, 11887
    - reviews 9541
  - spectinomycin adenyltransferase 11880
  - streptomycin 11880
  - tobacco mosaic tobamovirus 8351
  - tomato mosaic tobamovirus 8352
  - tomato spotted wilt tospovirus 10952
  - tomato yellow leaf curl bigeminivirus 681, 11895
  - transposable elements 3054, 5170, 7210, 8328, 10655
  - variegation 11880
- *Lycopersicon hirsutum,* tomato yellow leaf curl bigeminivirus 681, 10685
- *Lycopersicon pennellii* 10656
  - tomato yellow leaf curl bigeminivirus 11895
  - transposable elements 7210
- *Lycopersicon peruvianum,* tobacco mosaic tobamovirus 8351
- *Malus pumila* 3108, 8379, 9572, 10718
  - ACC oxidase 732
  - insects 4120
  - roots 3111
- *Manihot esculenta* 3019, 5130
- *Medicago sativa* 8098, 12809
  - albumins 6107
  - cold resistance 6084
  - glufosinate 9973
  - glufosinate acetyltransferase 7688
  - herbicides 9973
  - nodulation 3918
  - nodulins 11666

Genetic transformation *cont.*
- *Medicago sativa cont.*
  - nutritive value 8133
  - proteins 8133
  - *Rhizobium* 3918
  - superoxide dismutase 6084
  - vicilin 6107
- medicinal plants 9910
- multiple genes 11175
- *Musa* 6317
- *Nicotiana* 5446
  - β-glucuronidase 12132
- *Nicotiana alata*
  - ribonucleases 6484
  - self incompatibility 6484
- *Nicotiana benthamiana*
  - antibodies 5470
  - artichoke mottled crinkle tombusvirus 5470
  - bean yellow mosaic potyvirus 4311
  - cowpea chlorotic mottle bromovirus 6501
  - cucumber mosaic cucumovirus 4480, 5475
  - cymbidium ringspot tombusvirus 5480, 8569
  - grapevine fanleaf nepovirus 8566
  - impatiens necrotic spot tospovirus 10944
  - pea early browning tobravirus 5476
  - plum pox potyvirus 3310, 5467, 13058
  - potato X potexvirus 4480
  - potato Y potyvirus 4480
  - replicase 5475
  - squash leaf curl bigeminivirus 3312
  - tobacco mosaic tobamovirus 5475
  - tomato spotted wilt tospovirus 10944
- *Nicotiana bigelovii,* cauliflower mosaic caulimovirus 4309
- *Nicotiana clevelandii,* plum pox potyvirus 3310, 5467, 13058
- *Nicotiana debneyi,* pathogenesis-related proteins 6497
- *Nicotiana glutinosa*
  - pathogenesis-related proteins 6497
  - tobacco mosaic tobamovirus 9734
- *Nicotiana langsdorffii*
  - ribonucleases 6484
  - self incompatibility 6484
- *Nicotiana plumbaginifolia* 4579, 12129
  - air pollution 6495
  - apoaequorin 1143
  - chitinase 3283
  - cytokinins 937
  - heat shock 10939
  - isopentenyl transferase 937, 10939
  - *Manduca sexta* 937
  - *Myzus persicae* 937
  - nitrate reductase 6487, 6491
  - ozone 6495
  - photosynthesis 6491, 8310
  - recombination 4294
  - source sink relations 6487
  - strictosidine synthase 12286
  - superoxide dismutase 6495, 8541
  - transposable elements 10930
- *Nicotiana suaveolens,* cytoplasmic male sterility 13220
- *Nicotiana sylvestris*
  - *Cercospora nicotianae* 5465
  - chitinase 3278, 5465-5466
  - fungi 5466
  - β-glucanase 5465
- *Nicotiana tabacum* 57, 921, 2051, 3280, 3531, 3723, 4207, 4296, 4559, 5443, 5448, 5453, 5662, 6475, 6477, 7600, 7883, 8153, 8545-8546, 8673, 9997, 10931, 11199, 11209, 12126, 12134, 12136, 12139, 13201, 13203, 13213-13214
  - abscisic acid 10856
  - acyl-acyl-carrier-protein desaturase 10836
  - acyl-CoA desaturase 13232
  - adenosinetriphosphatase 2060, 6671, 10088
  - adenosylmethionine decarboxylase 8542
  - *Agrobacterium rhizogenes* 927, 5451, 7388, 10932

Genetic transformation *cont.*
- *Nicotiana tabacum cont.*
  - *Agrotis ipsilon* 5482
  - air pollution 8785
  - albumins 2907, 4199, 6107
  - alcohol dehydrogenase 1830
  - alfalfa mosaic alfamovirus 13235
  - antibodies 3277, 4293
  - aromatic-L-amino-acid decarboxylase 8732
  - ascorbate oxidase 10705
  - asparaginase 11685
  - aspartate-ammonia ligase 6172
  - aspartate kinase 4292
  - auxins 914, 3495, 6128, 8149
  - *Bacillus thuringiensis* 12156
  - betaine-aldehyde dehydrogenase 12146
  - *Botrytis cinerea* 3298, 6499
  - bromoxynil 7405
  - cadmium 7391
  - caffeic acid *O*-methyltransferase 8559
  - carbonate dehydratase 13229
  - cauliflower mosaic caulimovirus 10925
  - cecropin 6498
  - cell division 2053
  - chaperonins 4591, 13207
  - chitinase 3293, 5741, 6500, 8565, 10504
  - chlorophyll *a/b* binding protein 2356, 5858
  - chloroplasts 12387
  - chlorsulfuron 6508
  - chymotrypsin inhibitors 8571
  - cinnamyl-alcohol dehydrogenase 13228
  - α-coixin 6883
  - cold resistance 935, 13232
  - β-conglycinin 6123, 9335
  - cucumber mosaic cucumovirus 3306, 4480, 5475, 10945, 10948, 10951, 13235-13236
  - cysteine synthase*O*-acetylserine (thiol) lyase 2458
  - cytochrome P-450 8733
  - cytochromes 13237
  - cytokinins 910, 914, 12150, 13204
  - cytoplasmic male sterility 13220
  - development 912, 2053, 10372
  - dihydrodipicolinate synthase 4292
  - diseases 5742
  - DNA binding proteins 6883, 10929, 13206, 13209
  - ferredoxin 13210
  - flowering 10372
  - flowers 2053, 6489
  - fructans 8553
  - *Fusarium solani* 5743
  - gene expression
    - glucose-1-phosphate adenylyltransferase 10566
    - starch 10566
    - stomata 10566
  - gibberellic acid 5451
  - β-glucanase 9730, 5456, 6479
  - β-glucuronidase 8547, 12130, 12138, 13233
  - glufosinate 9973
  - glufosinate acetyltransferase 7688
  - glutamic acid kinase 7402
  - glutathione reductase 9729
  - glutelins 11556
  - glyceraldehyde-3-phosphate dehydrogenase 10011
  - glycine decarboxylase 10520
  - glycinin 3942
  - grapevine chrome mosaic nepovirus 5474
  - growth regulators 910, 914, 928, 3495, 6128, 7401
  - heat shock 5767
  - helianthinin 10856
  - *Heliothis virescens* 5481
  - herbicides 4315, 6508, 7405, 8785, 9973, 13237
  - histones 12398
  - hordothionins 5463
  - hydroxymethylglutaryl-CoA reductase 3425
  - hyoscyamine (6*S*)-dioxygenase 13382

Genetic transformation *cont.*
  Nicotiana tabacum cont.
    IAA 910, 928
    insects 8571
    ioxynil 7405
    isocitrate lyase 6478, 8477
    leaves 2053, 7397
    lettuce mosaic potyvirus 8568
    levansucrase 8553
    light 13210
    luciferase 916, 927
    lysozyme 8543
    malate synthase 8477
    male sterility 2060, 2386, 11242
    mannopine synthase 915, 930
    metallothionein 6494, 7391, 13202, 13233
    methotrexate 7392
    methyl jasmonate 3279
    napin 4204
    nitrate reductase 10926
    nitrite reductase 4037
    nitrogen reductase 6476
    nodulation 912
    nodulins 2870
    nopaline synthase 4576
    norflurazon 4315
    oleosins 6340
    ornithine carbamoyltransferase 3290
    palmitoyl-acyl carrier protein desaturase 8745
    paraquat 8785
    pathogenesis-related proteins 5463, 6499, 6504, 9730, 10653
    Peronospora tabacina 936, 3289
    peroxidases 3511, 4487, 5680, 11123
    peroxisomes 6478
    phaseolin 2885, 13206
    phenylalanine ammonia-lyase 11227
    photosynthesis 1778, 2067, 6492, 8310, 8555, 12147, 12977, 13229
    phytoalexins 6499
    phytochrome 3285, 11398, 13205, 13224
    phytoene desaturase 4315
    Phytophthora nicotianae 936, 3289
    plastocyanins 3520
    plum pox potyvirus 3302, 3310, 10947
    pollen 4593, 8330, 8477
    polyamines 8542
    potato leaf roll luteovirus 4312
    potato spindle tuber viroid 9723
    potato X potexvirus 4480, 6502
    potato Y potyvirus 3301, 4480, 7392, 8568, 8570, 10949, 10953
    Pseudomonas 12478
    Pseudomonas solanacearum 11227
    Pseudomonas syringae 3290, 6498
    pyrophosphatase 12147
    pyruvate decarboxylase 12143
    recombinase 7390
    recombination 13212
    replicase 5475
    resveratrol 6499
    reviews 12145
    Rhizoctonia solani 3293, 5741, 6500, 8565
    ribosome inactivating proteins 6500
    ribozymes 5473, 12127
    ribulose-bisphosphate carboxylase 2067, 6490, 6493, 8555, 12145, 13226
    ribulose-bisphosphate carboxylase activase 931, 5155, 8557
    salicylic acid 3279
    salinity 7402
    seeds 6123, 10856
    self incompatibility 3041
    senescence 930
    spectinomycin adenyltransferase 11880
    Spodoptera littoralis 5482
    streptomycin 11880
    stress 6192, 6680, 12152
    sucrose 10932
    superoxide dismutase 6192, 8785, 12152
    tetracycline 8544
    thifensulfuron 6508

Genetic transformation *cont.*
  Nicotiana tabacum cont.
    thioneins 8953
    thionins 12478
    tobacco etch potyvirus 4310, 7392
    tobacco mosaic tobamovirus 3303, 3307, 4308, 5473, 5475, 5478, 6504, 9734, 10950, 13227
    tobacco rattle tobravirus 8567
    tobacco vein mottling potyvirus 10946
    tomato golden mosaic bigeminivirus 3305
    tomato spotted wilt tospovirus 10952
    toxic substances 7391
    transposable elements 3718, 6579, 7888, 7891, 7904, 9049
    tribenuron 6508
    trihydroxystilbene synthase 6499
    tryptophan decarboxylase 4470
    tubulin 3710, 7079
    variegation 11880
    vicilin 6107
    zucchini yellow mosaic potyvirus 3090
  nitrate reductase 11186
  nitrates 11186
  nitrite reductase 11186
  Olea europaea 6410
  Oryza sativa 399, 1524, 2425, 3804-3805, 3812, 4883, 6022, 6967, 10060, 11557, 11562, 12719
    alcohol dehydrogenase 10233
    Chilo suppressalis 447
    Cnaphalocrocis medinalis 447
    histones 1276
    interferon 6968
    luciferase 8011
    Magnaporthe grisea 8040
    NAD(P)H-plastoquinone-oxidoreductase 12465
    pathogens 4899
    phosphoenolpyruvate carboxylase 12674
    phytochrome 5930
    pyruvate,orthophosphate dikinase 10273
    reviews 12717
    ribulose-bisphosphate carboxylase 394, 12674
    rice tungro bacilliform badnavirus 11609
    stress 4899
    transposable elements 7898
    ubiquitin 1402
    viruses 11609
    Xanthomonas oryzae 8040
  pathogens 8561
  Pelargonium
    essential oils 6563
    fragrance 6563
    habit 6563
  peroxidases 11187
  pests 4548
  Petroselinum crispum, naringenin-chalcone synthase 8491, 12298
  Petunia 4821
    pollen 1230
  Petunia hybrida 8699-8700, 11443, 12263
    cysteine proteinase 1909
    dihydrokaempferol 4-reductase 4441, 9881, 13368
    flavonoids 4441
    flavonols 12265
    floral binding protein 3415
    β-glucuronidase 12264
    naringenin-chalcone synthase 9882
    neomycin phosphotransferase 12264
    photosynthesis 6586
    pollen germination 12265
    protoplasts 1016
    transposable elements 3729, 13366
  Petunia inflata
    ribonucleases 6582
    self incompatibility 6582
  Phaseolus vulgaris
    ornithine carbamoyltransferase 5037
    Pseudomonas syringae 5037
  phytochrome 11194
  Picea glauca 4371, 4559, 8641

Genetic transformation *cont.*
  Pinus banksiana, Agrobacterium rhizogenes 983
  Pinus monticola, Agrobacterium rhizogenes 983
  Pisum sativum 1730, 3965, 5043, 6189, 10515
    albumins 4199
    nutritive value 8133
    proteins 8133
    tissue culture 8186
  plant composition 12348
  Pleurotus ostreatus 13404
  Poncirus trifoliata 10805
  Populus 6538, 7436, 8598, 13270
  Populus alba
    proteinase inhibitors 2117
    protoplasts 8599
  Populus canadensis, proteinase inhibitors 2117
  Populus canescens 12186
  Populus grandidentata, proteinase inhibitors 2117
  Populus nigra 6539
    Apocheimia cinerarius 5549
    Lymantria dispar 5549
  Populus tremula, protoplasts 8599
  Prunus armeniaca, plum pox potyvirus 5467, 13058
  Prunus domestica 3108
    plum pox potyvirus 13058
  Pyrus pyrifolia 3108
  Raphanus sativus 5990
  Rauvolfia serpentina 6601
  reviews 54-55, 4566, 7599, 9984-9985, 11176, 11186-11187, 11189-11190, 11192, 12394
  Rubus, β-glucuronidase 12132
  Saccharum 3258
  Saccharum officinarum 2006-2007, 3260, 6437, 12104
    sugarcane mosaic potyvirus 6455
  Saccharum spontaneum 3257
  Salix alba 8598
  Salix viminalis, isopentenyl transferase 5550
  Secale cereale 10061
  secondary metabolites 7601
  Sinapis alba 4227
  Sinningia, regenerative ability 12283
  Solanum, tuberous species 11809
  Solanum integrifolium, Leptinotarsa decemlineata 697
  Solanum melongena 685, 9556
    Leptinotarsa decemlineata 697
  Solanum sodomeum 4087
  Solanum stoloniferum 1789
  Solanum tuberosum 2951, 2966, 5088, 6354, 9997, 12929
    Agrobacterium rhizogenes 5109
    Agrobacterium tumefaciens 7602
    amylose 6233
    carbohydrates 3994
    cecropin 4005-4006
    cucumber mosaic cucumovirus 4480
    Erwinia carotovora 2979, 2983, 4005-4006, 6239
    fructans 10574
    β-fructofuranosidase 11192
    fructosyltransferase 10574
    gene expression
      glucose-1-phosphate adenylyltransferase 10566
      starch 10566
      stomata 10566
    glycogen (starch) synthase 10585
    indoleacetate-lysine synthetase 10570
    injuries 10590
    lipoxygenase 10590
    lysozyme 4005, 6239
    photosynthesis 7202, 9464, 11821
    Phthorimaea operculella 3013
    Phytophthora infestans 2994
    plastocyanins 7202
    potato leaf roll luteovirus 12944
    potato X potexvirus 4480, 5115
    potato Y potyvirus 4480, 10600
    pyrophosphate:fructose-6-phosphate 1-phosphotransferase 8248
    starch 10585, 11821
    starch synthase 4017, 6233, 11804

Genetic transformation *cont.*
- *Solanum tuberosum cont.*
  - sucrose synthase 11192
  - sucrose transporter 8246
  - sulfate adenylyltransferase 10568
  - *Verticillium* 8273
  - viruses 10607
  - yield components 11806
- *Solanum vernei* 1789
- *Sorghum bicolor* 356
  - *Agrobacterium tumefaciens* 2708
  - phosphinothricin acetyltransferase 4861
- source sink relations 11192
- *Spinacia oleracea*
  - acetohydroxy acid isomeroreductase 10647
  - ribulose-bisphosphate carboxylase activase 5155
- starch 11190, 12396
- statistics 11195
- stress 11187
- *Stylosanthes guianensis* 8123
- superoxide dismutase 11187
- *Taxus baccata* 5608
- *Taxus brevifolia* 5608
- techniques 7599, 9984, 9998
- temperate fruits, reviews 3105
- *Theobroma cacao* 13199
- *Tradescantia paludosa,* pollen 2176
- transposable elements 1127
- *Trifolium repens* 8107
- *Trifolium subterraneum* 11672
  - nutritive value 8133
  - proteins 8133
- triticale 8987
- *Triticum aestivum* 156, 183, 2424, 2456, 2501, 4676, 4678, 5862, 6742, 7706, 7738, 10060-10061, 12488
  - amino acids 4735
  - amylase inhibitors 12524
  - bilanafos 265
  - *Erysiphe graminis* 4735
  - glufosinate 264-265, 4681, 5899
  - herbicides 264-265, 4681, 5899
  - inflorescences 11310
  - phosphinothricin acetyltransferase 5899
  - pollen 1230
  - spikelets 11310
  - trypsin inhibitors 2427
- *Triticum monococcum* 2501
- *Vaccinium corymbosum* 4148
- *Vicia faba,* albumins 4199
- *Vicia hirsuta,* nodulation 11681
- *Vicia narbonensis,* albumins 4199
- *Vigna unguiculata* 581
- viruses 1128, 2313, 3481, 3487, 4548, 5744, 9966
- *Vitis rupestris* 13084
- *Vitis vinifera,* viruses 3166
- *Zea mays* 306, 1401, 2424-2425, 2672, 3723, 3725, 4819, 5955, 5957, 7600, 7883, 10061, 12656-12657
  - *Agrobacterium tumefaciens* 2670
  - alcohol dehydrogenase 5985
  - anoxia 5985
  - anthocyanins 7882, 10239
  - bilanafos 9167
  - *Cochliobolus carbonum* 7956
  - development 7882
  - glucose-1-phosphate adenylyltransferase 3724
  - glufosinate 5991, 9167, 10058
  - glufosinate acetyltransferase 7688
  - glycoproteins 9200
  - herbicides 5991, 9167
  - kanamycin 10227
  - maize streak monogeminivirus 4849, 5990
  - phosphinothricin acetyltransferase 2705
  - zein 12661
  - sweetcorn
    - maize chlorotic mottle machlovirus 5989
    - maize dwarf mosaic potyvirus 5989

Genetic tumours
- *Nicotiana glauca*
  - gene expression 12155

Genetic tumours *cont.*
- *Nicotiana glauca cont.*
  - nucleotide sequences 12155
- *Nicotiana langsdorffii*
  - gene expression 12155
  - nucleotide sequences 12155

Genetic variance 84, 86, 8825
- *Arachis hypogaea,* yield components 12082
- *Beta vulgaris*
  - sugarbeet
    - bolting 897, 12116
    - cells 897
    - gibberellic acid 897
    - growth regulators 897
- *Brassica campestris,* sarson, yield components 10844
- *Brassica juncea,* seedlings 8481
- *Brassica napus,* rape, erucic acid 5370
- *Brassica oleracea,* kale, *Plasmodiophora brassicae* 9519
- *Cajanus cajan,* yield components 1760-1761
- *Capsicum annuum,* growth period 4079
- *Carthamus tinctorius*
  - oils 12064
  - yield components 10867, 12064
- *Cicer arietinum,* yield components 2926
- *Cucumis melo, Pseudoperonospora cubensis* 13029-13030
- *Cyamopsis tetragonoloba,* quality 595
- *Datura*
  - alkaloids 7548
  - hyoscyamine 7548
- *Dendranthema morifolium* 11067
  - yield components 6569
- diseases 11168
- *Eragrostis tef,* yield components 9272
- forest trees, computer simulation 2111
- *Glycine max*
  - *Heterodera glycines* 6142
  - yield components 11714, 12857
- *Gossypium,* quality 10977
- *Gossypium arboreum,* yield components 2090-2091, 10974
- *Gossypium hirsutum*
  - gossypol 2094
  - oils 8577
  - quality 2095, 9746
  - yield components 6517
- haploidy 12433
- *Helianthus annuus*
  - leaves 7340
  - yield components 1966, 6359, 9680
- *Hyoscyamus muticus*
  - tropane alkaloids 12288
  - yields 12288
- *Linum usitatissimum*
  - flax
    - height 7424
    - yield components 10982
- *Lolium perenne,* leaves 12789
- *Lupinus albus,* alkaloids 10441
- *Lycopersicon cheesmanii, Alternaria alternata* 13017
- *Lycopersicon esculentum*
  - *Alternaria alternata* 13017
  - sugars 13012
  - yield 5178
  - yield components 11889
  - yields 10672
- *Lythrum salicaria*
  - heterostyly 11063
  - sex 11063
- *Malus pumila*
  - development 3112
  - dormancy 3112
  - seasonal growth 3112
- mathematics 1173
- *Medicago sativa* 11660
  - *Verticillium albo-atrum* 2834
- *Mimulus guttatus,* inbreeding depression 9866
- *Moringa oleifera,* yield components 7372
- *Nicotiana rustica*
  - flowering 3284
  - height 3284
- *Oryza sativa* 11545
  - amylose 6980
  - anther culture 432
  - cold resistance 12756

Genetic variance *cont.*
- *Oryza sativa cont.*
  - habit 10370
  - harvest index 1948
  - nitrogen 1948
  - photosynthesis 10367
  - quality 6047
  - seedlings 8026
  - stems 10370
  - yield components 1561, 1569, 11591
- *Papaver somniferum,* yield components 2224
- *Pennisetum glaucum*
  - height 10326
  - morphology 1503
  - *Sclerospora graminicola* 6961
  - yield components 11538-11539
- *Persea americana,* yield components 9630, 12019
- pests 11168
- *Phaseolus vulgaris*
  - leaves 12873
  - plant hairs 12873
- *Pinus elliottii,* wood properties 9818
- *Pinus gerardiana*
  - cones 3357
  - seeds 3357
- *Pinus taeda,* statistics 9807
- *Pisum sativum,* yield components 7113
- *Prunus dulcis,* yield components 13116
- quantitative traits, statistics 2370-2371
- *Saccharum officinarum*
  - *Puccinia melanocephala* 6452
  - sugarcane Fiji disease fijivirus 6453
- *Secale cereale*
  - *Erysiphe graminis* 6869
  - *Fusarium culmorum* 2659, 6868
  - *Gibberella zeae* 2659
  - *Monographella nivalis* 6868
  - *Pseudocercosporella herpotrichoides* 6868
- *Sinapis alba,* fatty acids 3214
- *Solanum melongena,* yield components 10690
- *Solanum tuberosum, Pseudomonas solanacearum* 2984
- *Sorghum bicolor*
  - *Atherigona soccata* 10316
  - development 7978
  - flooding 360
  - germination 360
  - inflorescences 354
- statistics 7668, 12433
- *Thuja plicata,* statistics 9807
- *Trifolium repens*
  - alfalfa mosaic alfamovirus 11679
  - clover yellow vein potyvirus 11679
  - peanut stunt cucumovirus 11679
  - persistence 11674
  - yield components 11674
- triticale, *Gibberella zeae* 2666
- *Triticum aestivum*
  - anther culture 222
  - catalase 4701
  - competitive ability 4720
  - dormancy 12526
  - *Erysiphe graminis* 11363
  - nutrients 3637
  - peroxidases 4701
  - physiology 3624
  - potassium 3637
  - stress 7792
  - superoxide dismutase 4701
  - temperature 12526
  - *Tilletia indica* 249
  - transpiration 12537
  - *Typhula ishikariensis* 12565
  - yield components 1307, 3624, 6758, 10107, 10109-10110
- *Triticum durum*
  - carboxylases 8896
  - proteins 8896
  - ribulose-bisphosphate carboxylase 8896
- *Triticum turgidum,* yield components 6754
- *Vicia faba,* yield components 6151, 10494
- *Vigna angularis*
  - growth period 6222
  - morphology 6222

- **Genetic variance** *cont.*
  - *Vigna radiata,* yield components 590, 1770
  - *Vigna unguiculata,* yield components 11779
  - *Zea mays*
    - *Colletotrichum graminicola* 4842
    - development 10267
    - drought resistance 3760
    - *Erwinia stewartii* 4838
    - growth period 11452
    - height 11452
    - regenerative ability 10275
    - soil pH 5982
    - *Sphacelotheca reiliana* 6903
    - tissue culture 10275
    - yield components 333, 341, 5982, 11465
- **Genetic variation** 1180
  - *Abies alba,* isoenzymes 7492, 8643
  - *Abies borisii-regis,* isoenzymes 7492
  - *Abies bornmuelleriana,* isoenzymes 7492
  - *Abies cephalonica,* isoenzymes 7492
  - *Abies mariesii,* isoenzymes 12222
  - *Acer saccharum* 10917
    - isoenzymes 2042-2043
  - *Aegilops squarrosa*
    - β-amylase 7826
    - esterases 7826
    - gliadin 7826
    - glucose-6-phosphate isomerase 7826
    - glutenins 7826
    - isoenzymes 2573
  - *Arachis,* isoenzymes 4254
  - *Arachis hypogaea,* yield components 1985
  - *Astronium urundeuva* 4347
  - *Avena barbata,* isoenzymes 12636
  - *Avena byzantina,* isoenzymes 5929
  - *Avena hirtula,* isoenzymes 12636
  - *Avena sativa,* isoenzymes 5929, 7866
  - *Avena sterilis,* isoenzymes 5929, 5932
  - *Bealia mexicana,* isoenzymes 6071
  - *Beta,* isoenzymes 9709
  - *Betula humilis* 4348
  - *Brassica alboglabra,* isoenzymes 11865
  - *Brassica campestris,* turnips, isoenzymes 11865
  - *Brassica oleracea*
    - broccoli, isoenzymes 11865
    - cabbages, isoenzymes 11865
    - cauliflowers, isoenzymes 11865
    - kale, isoenzymes 11865
  - *Bromus tectorum* 8089
    - isoenzymes 1643
  - *Carapa guianensis* 13281
  - *Castanea,* isoenzymes 13119
  - *Castanea sativa,* isoenzymes 5339-5340
  - *Cecropia* 4347
  - *Cephalanthera,* isoenzymes 1025
  - *Chamaecyparis obtusa,* isoenzymes 991, 13326
  - *Cocos nucifera* 3231
    - isoenzymes 3232
    - phenolic compounds 3232
  - *Coreopsis integrifolia,* isoenzymes 13352
  - *Coreopsis pulchra,* isoenzymes 13352
  - *Coreopsis rosea,* isoenzymes 13352
  - *Cryptomeria japonica,* isoenzymes 5609, 7496
  - *Cunninghamia lanceolata,* isoenzymes 13324
  - *Cypripedium,* isoenzymes 9890
  - *Elymus pungens,* isoenzymes 1633
  - *Elymus repens,* isoenzymes 1633
  - *Esenbeckia leiocarpa* 4347
  - *Eucalyptus* 969
  - *Eucalyptus urophylla,* isoenzymes 13262
  - *Eurya japonica,* isoenzymes 13283
  - *Fagopyrum esculentum,* isoenzymes 11614-11615
  - *Fagus sylvatica,* isoenzymes 8597, 13269
  - *Faidherbia albida,* isoenzymes 5560, 9802
  - *Festuca pratensis,* isoenzymes 3878
  - forest trees 8585, 9767
  - *Fortunella,* isoenzymes 13099
  - *Glycine soja,* isoenzymes 513
  - *Gossypium hirsutum,* isoenzymes 4338
  - *Gossypium lanceolatum,* isoenzymes 4338
- **Genetic variation** *cont.*
  - *Helianthus annuus,* isoenzymes 1965
  - *Hevea,* isoenzymes 12176
  - *Hevea brasiliensis* 4347
    - isoenzymes 12175
  - *Hippophae neurocarpa,* isoenzymes 4164
  - *Hippophae rhamnoides,* isoenzymes 4164
  - *Hippophae tibetana,* isoenzymes 4164
  - *Hordeum spontaneum,* random amplified polymorphic DNA 269
  - isoenzymes 6687, 8829
  - *Juglans regia,* isoenzymes 9646
  - *Larix decidua,* isoenzymes 5601
  - Leguminosae 8126
  - *Leucaena* 8126
  - *Liriodendron tulipifera,* isoenzymes 11007
  - *Lolium,* isoenzymes 3878, 4919
  - *Lolium boucheanum*
    - acid phosphatase 9251
    - phosphoglucoisomerase 9251
  - *Lolium multiflorum*
    - acid phosphatase 9251
    - phosphoglucoisomerase 9251
  - *Lolium perenne*
    - acid phosphatase 9251
    - isoenzymes 456, 3877
    - phosphoglucoisomerase 9251
  - *Lupinus albus*
    - isoenzymes 3927
    - phosphogluconate dehydrogenase 3927
  - *Malus pumila,* isoenzymes 4126
  - *Medicago sativa,* isoenzymes 8102
  - *Melaleuca alternifolia,* isoenzymes 9936
  - *Metrosideros polymorpha,* isoenzymes 7454
  - *Muhlenbergia argentea,* isoenzymes 6071
  - *Muhlenbergia lucida,* isoenzymes 6071
  - multivariate analysis 3461, 3535
  - *Musa*
    - glucose-6-phosphate isomerase 788
    - isoenzymes 788
    - malate dehydrogenase 788
    - peroxidases 1911
    - phosphoglucomutase 788
  - *Pennisetum glaucum*
    - esterases 7985
    - isoenzymes 7985
  - *Phaseolus vulgaris,* isoenzymes 9384
  - *Picea abies,* isoenzymes 12220
  - *Picea glauca,* isoenzymes 5593
  - *Picea jezoensis,* isoenzymes 8642
  - *Picea orientalis*
    - enzymes 3365
    - isoenzymes 3365
  - *Pinus* 969
  - *Pinus contorta,* isoenzymes 6549
  - *Pinus edulis*
    - glycerate dehydrogenase 11025
    - isoenzymes 11025
  - *Pinus pinaster,* proteins 12215
  - *Pinus pumila,* isoenzymes 4363
  - *Pinus sibirica,* isoenzymes 4364
  - *Pinus sylvestris* 9811
    - isoenzymes 984, 11022, 13300-13301
  - *Pisum sativum,* histones 1735
  - *Populus grandidentata,* isoenzymes 8601
  - *Populus tremuloides,* isoenzymes 8601
  - *Prosopis velutina,* isoenzymes 13282
  - *Pseudotsuga menziesii,* isoenzymes 9825
  - *Puccinellia,* isoenzymes 7043
  - *Puccinellia howellii,* isoenzymes 7043
  - *Puccinellia lemmonii,* isoenzymes 2819
  - *Puccinellia parishii,* isoenzymes 2819
  - *Quercus ellipsoidalis* 6536
    - isoenzymes 6535
  - *Quercus laevis* 8593
    - isoenzymes 8594
  - *Quercus margaretta* 8593
  - *Quercus rubra* 6536
    - isoenzymes 6535
  - *Quercus suber* 10996
  - *Raphanus raphanistrum,* quantitative traits 9495
  - *Secale × Triticum,* isoenzymes 2488
  - *Senna multijuga*
    - dormancy 12198
    - germination 12198
  - *Solanum chacoense*
    - isoenzymes 7160
- **Genetic variation** *cont.*
  - *Solanum chacoense cont.*
    - quantitative traits 7160
  - *Solanum phureja*
    - isoenzymes 7160
    - quantitative traits 7160
  - *Solanum tuberosum*
    - isoenzymes 7160
    - quantitative traits 7160
  - *Stemonoporus oblongifolius,* isoenzymes 8614
  - *Stylosanthes,* isoenzymes 487
  - *Taiwania cryptomerioides,* isoenzymes 4383
  - techniques 6687
  - *Torreya taxifolia,* isoenzymes 11033
  - *Triticum aestivum,* isoenzymes 2488
  - *Triticum turgidum,* isoenzymes 11324
  - *Tulipa*
    - esterases 13373
    - isoenzymes 13373
    - malate dehydrogenase 13373
  - *Vicia faba,* isoenzymes 3956, 5004
  - *Vigna unguiculata,* vignin 9427
  - *Zea mays,* isoenzymes 11464, 11478
- **Genetics** 6686, 6690, 8823, 8843, 12425
  - *Abelmoschus, Erysiphe cichoracearum* 10713
  - *Abelmoschus esculentus, Erysiphe cichoracearum* 10713
  - *Abies alba*
    - isocitrate dehydrogenase 4378
    - isoenzymes 4378
  - *Abies pinsapo,* isoenzymes 7491
  - *Aegilops*
    - hybrid chlorosis 3663
    - hybrid necrosis 3663
  - *Aegilops squarrosa, Mayetiola destructor* 11369
  - *Aegilops ventricosa, Heterodera avenae* 4746
  - *Aegilops × Secale*
    - glutenins 2654
    - quality 2654
  - *Aegilops × Triticum*
    - chromosome pairing 3609, 7752
    - colour 10096
    - *Erysiphe graminis* 2548
    - glumes 10096
    - *Heterodera avenae* 4746
    - *Mayetiola destructor* 11369
    - plant hairs 10096
    - spring and winter habit 10097
    - waxes 10096
  - *Agrocybe aegerita*
    - fructification 4498
    - incompatibility 4496
    - reproduction 4498
  - *Agropyron × Triticum,* barley yellow dwarf luteovirus 12578
  - *Allium,* books 13415
  - *Allium schoenoprasum,* cytoplasmic male sterility 9507
  - anthocyanins 1237
  - *Antirrhinum,* flowering 1160
  - *Antirrhinum majus,* flowers 2196
  - *Arabidopsis thaliana*
    - *Albugo candida* 1169
    - development 7648
    - diseases 11226
    - embryology 1163
    - flowering 1160, 1238
    - flowers 7648
    - gibberellins 69
    - glucosinolates 9667
    - growth period 7649
    - growth regulators 69
    - methionine 7640
    - nomenclature 10013
    - *Peronospora parasitica* 1169, 3530, 5786, 7231, 11229
    - phytochrome 10013
    - plant embryos 1163
    - plant hairs 8817
    - pollen 7635
    - *Pseudomonas syringae* 1167-1168, 3529
    - shoots 12422
    - temperature 12422
    - transposable elements 3505
    - *Xanthomonas campestris* 5786

Genetics *cont.*
- *Arachis hypogaea*
  - books 9950
  - habit 3238
  - iron 7365
  - leaves 1981
  - nutrients 7365
  - *Sclerotinia minor* 3244
  - seeds 12078
- *Asparagus officinalis,* isoenzymes 1824
- *Astragalus cicer* 4961
- *Avena nuda, Puccinia coronata* 6866
- *Avena sativa*
  - *Erysiphe graminis* 5936
  - *Puccinia coronata* 5936
  - *Puccinia graminis* 5936
  - reviews 4787
  - *Ustilago segetum* 2644
- *Avena wiestii, Puccinia coronata* 6866
- bacteria 1116
- *Beta maritima*
  - flowering 2032
  - vernalization 2032
- *Beta vulgaris*
  - sugarbeet
    - books 4519
    - cytoplasmic male sterility 9705
    - flowers 13188
    - monogerm seeds 13188
- *Brassica*
  - *Sclerotinia sclerotiorum* 12052
  - turnip mosaic potyvirus 12052
  - *Xanthomonas campestris* 1959
  - Chinese cabbages, turnip mosaic potyvirus 3048
- *Brassica alboglabra*
  - erucic acid 4219
  - self incompatibility 6343
- *Brassica campestris* 10842
  - erucic acid 4219
  - self incompatibility 6343, 7327
  - sarson, erucic acid 13133
- *Brassica carinata*
  - colour 8482, 13135
  - flowers 8482
  - growth period 12041
  - seeds 13135
- *Brassica juncea*
  - colour 13135
  - growth period 12040
  - leaves 12044
  - seeds 12044, 13135
- *Brassica napus*
  - rape
    - colour 9666, 13135
    - cytoplasmic male sterility 1942, 10841
    - glucosinolates 3206, 9667
    - growth period 12040-12041
    - *Phyllotreta cruciferae* 3212
    - seeds 9666, 13135
    - self incompatibility 3200, 6343
    - vernalization 9666
- *Brassica nigra, Leptosphaeria maculans* 10850
- *Brassica oleracea*
  - self incompatibility 7327
  - broccoli, quantitative traits 4028
  - cabbages, quantitative traits 4028
  - cauliflowers, male sterility 642
  - kale, self incompatibility 6343
- *Brassica pekinensis,* male sterility 8305
- *Buddleja*
  - colour 992
  - flowers 992
  - habit 992
- *Cannabis sativa,* sex 3337
- *Capsicum, Verticillium dahliae* 4101
- *Capsicum annuum*
  - bentazone 4102
  - β-carotene 4095
  - colour 4095
  - fruits 4095
  - height 5199
  - herbicides 4102
  - *Phytophthora capsici* 709-710
  - potato Y potyvirus 5201
  - tomato spotted wilt tospovirus 11900
- *Capsicum chacoense, Meloidogyne* 711
- *Capsicum chinense*
  - height 5199

Genetics *cont.*
- *Capsicum chinense cont.*
  - *Meloidogyne* 711
  - tomato spotted wilt tospovirus 11900
- *Capsicum frutescens*
  - *Meloidogyne* 711
  - *Phytophthora capsici* 709
- *Carthamus tinctorius,* fatty acids 3221
- cereals, enzyme inhibitors 11284
- chitinase, reviews 5731
- *Cicer arietinum*
  - *Ascochyta rabiei* 571
  - colour 567
  - fasciation 3974
  - leaves 10533
  - seeds 10534
- *Citrullus lanatus*
  - *Fusarium oxysporum* 13036
  - male sterility 11913, 13035
- *Citrus*
  - acid phosphatase 3175-3176
  - seeds 8446
- *Citrus × Poncirus,* acid phosphatase 3176
- *Coffea, Hemileia vastatrix* 7385
- *Coffea arabica, Hemileia vastatrix* 7385, 8536
- colour 1237
- competitive ability, reviews 2317
- computer simulation 11234
- *Corchorus capsularis,* colour 2103
- crops 2411
  - conferences 12309
  - diseases 2311
  - nutrients 7687
  - pathogens 3067
  - photosynthesis 1239
- *Cucumis*
  - fruits 1866
  - leaves 1866
- *Cucumis melo*
  - *Fusarium oxysporum* 11908
  - *Pseudoperonospora cubensis* 11907
  - regenerative ability 11904
  - watermelon mosaic 2 potyvirus 13031
- *Cucumis sativus*
  - catalogues 11928
  - *Cladosporium cucumerinum* 9564
  - colour 3099
  - determinate and indeterminate habit 8372
  - fruits 3099
  - *Fusarium oxysporum* 9564
  - leaves 11932
  - roots 8372
- *Cucurbita moschata*
  - chlorophyll 11920
  - colour 11921
  - fruits 11921
  - watermelon mosaic 2 potyvirus 4111
  - zucchini yellow mosaic potyvirus 4111
- *Cucurbita pepo*
  - colour 11923
  - fruits 11923
- Cucurbitaceae 5204
- *Cuphea*
  - decanoic acid 6433
  - octanoic acid 6433
- *Cuphea lanceolata*
  - decanoic acid 6433
  - octanoic acid 6433
- *Cuphea viscosissima*
  - decanoic acid 6433
  - octanoic acid 6433
- *Cupressus sempervirens,* isoenzymes 2150
- *Decodon verticillatus,* heterostyly 4467
- *Dendrocalamus strictus,* chlorophyll 5677
- dictionaries 12313
- *Dioscorea cayenensis,* isoenzymes 12959
- *Dioscorea rotundata,* isoenzymes 12959
- diseases 1116
- edible fungi, sexual reproduction 3437
- *Eichhornia paniculata*
  - androecium 9909
  - heterostyly 9909
  - self compatibility 9909
- *Elaeis guineensis,* chlorophyll 13148
- *Elymus rectisetus,* apomixis 1213
- *Elymus repens* 7743

Genetics *cont.*
- *Elymus trachycaulus*
  - colour 10406
  - plant hairs 10406
  - spikelets 10406
  - stems 10406
  - waxes 10406
- enzymes 10035
- Ericaceae
  - colour 12233
  - flowers 12233
  - leaves 12233
- *Eustoma grandiflorum*
  - diaphorase 4424
  - esterases 4424
  - glucose-6-phosphate isomerase 4424
  - isoenzymes 4424
- *Fagus sylvatica*
  - isoenzymes 3343
  - phosphogluconate dehydrogenase 3343
- flavonoids 1237
- flowers 1237, 3543
- fodder legumes
  - *Rhizobium* 7071
  - symbiosis 7071
- forest trees 5698
- *Fortunella japonica,* acid phosphatase 3175
- *Fragaria vesca,* male sterility 10773
- *Glycine*
  - colour 10479
  - growth period 510
  - seeds 10479
- *Glycine max*
  - *Bradyrhizobium* 9362
  - *Cercospora sojina* 6141
  - colour 2861, 6131
  - fasciation 9346-9347
  - flowering 12843-12844, 12850
  - flowers 2861, 6131
  - fruits 12855
  - *Fusarium solani* 3951
  - growth period 11707
  - *Heterodera glycines* 6142, 11732
  - *Microsphaera diffusa* 9371
  - palmitic acid 8158, 9353, 11722
  - peroxidases 6135
  - *Phialophora gregata* 12865
  - photoperiodism 12843-12844
  - *Phytophthora megasperma* 1715
  - *Phytophthora sojae* 9374
  - plant hairs 12850
  - quality 8158, 9353
  - quantitative traits 2858
  - seeds 6135, 12842, 12855
  - soybean mosaic potyvirus 526, 3953, 9375
  - superoxide dismutase 3946
  - temperature 12843
- *Glycine soja*
  - leaves 9376
  - necroses 9376
  - superoxide dismutase 3946
- *Gossypium,* phenols 10955
- *Gossypium barbadense,* fruits 3320
- *Gossypium hirsutum*
  - anthocyanins 3323
  - colour 3323
  - gossypol 2094
  - herbicides 6524
  - leaves 3323
  - male sterility 3319
  - plant hairs 2093
  - prometryn 6524
  - quality 2093
- grain legumes
  - *Rhizobium* 7071
  - symbiosis 7071
- growth regulators 38
- *Helianthus annuus*
  - leaves 7340
  - *Orobanche cumana* 9683
  - pollen 4232
  - tocopherols 7346
- *Hibiscus cannabinus,* photoperiodism 12174
- history 2
  - books 2267
- *Hordeum, Puccinia hordei* 4780
- *Hordeum californicum* 7743

Genetics *cont.*
- *Hordeum murinum*
  - diquat 5928
  - herbicides 5928
  - paraquat 5928
- *Hordeum spontaneum,* proteins 12606
- *Hordeum vulgare* 1349, 2587
  - anthocyanins 3678
  - aspartate aminotransferase 1359
  - barley mild mosaic bymovirus 1373, 3684, 4781
  - barley yellow dwarf luteovirus 4782, 12630
  - barley yellow mosaic bymovirus 291, 1373, 3684, 4781
  - cold resistance 5919
  - *Diuraphis noxia* 8972
  - dormancy 5915, 12599
  - endosperm 2605, 7847
  - *Erysiphe graminis* 288, 1372, 2624, 2635-2637, 3682, 4775, 4777-4778, 5924, 6846-6849, 6851-6852, 7859, 10191, 12625
    - history 1371
  - esterases 291, 1359, 2607
  - flowering 5913
  - free radicals 2589, 2612
  - fungi 2624
  - germination 1356
  - growth regulators 5915
  - height 1358, 2609
  - *Heterodera* 4663
  - *Heterodera avenae* 2624
  - hordein 284
  - inflorescences 2589, 2591, 2612, 2616, 3679
  - internodes 278
  - isoenzymes 1357, 1359, 2607
  - lysine 2589, 2616
  - male sterility 1352
  - morphology 1358, 5913
  - nitrate reductase 12469
  - proteins 2589, 2612, 2616, 12606
  - *Puccinia graminis* 10193
  - *Pyrenophora graminea* 12622
  - *Pyrenophora teres* 2626
  - quality 8962
  - *Schizaphis graminum* 2624
  - seeds 1356
  - spring and winter habit 3679, 6831
  - sterility 1354
  - tillering 8962
  - viruses 2624
  - waxes 2434
- incompatibility 11235
- interspecific hybridization 11235
- *Ipomoea batatas,* isoenzymes 1807
- *Ipomoea trifida,* isoenzymes 1807
- isoenzymes 11230
- *Juglans major,* cherry leaf roll nepovirus 9648
- *Juglans nigra,* cherry leaf roll nepovirus 9648
- *Juglans regia*
  - cherry leaf roll nepovirus 9648
  - isoenzymes 9644, 9647
- *Lactuca, Bremia lactucae* 7204
- *Lactuca sativa*
  - *Bremia lactucae* 3051, 8312, 10650
  - *Pemphigus bursarius* 8312
- *Lens culinaris*
  - fasciation 562
  - habit 563
  - height 563
  - sterility 7123
- *Lens ervoides,* sterility 7123
- *Lens orientalis,* sterility 7123
- *Linum usitatissimum*
  - flax
    - diseases 3334
    - peroxidases 12167
- *Lotus tenuis,* self incompatibility 2849
- *Lupinus,* conferences 2251
- *Lupinus hispanicus,* seeds 11684
- *Lycopersicon, Clavibacter michiganensis* 5183
- *Lycopersicon chilense,* tomato yellow leaf curl bigeminivirus 9553
- *Lycopersicon esculentum*
  - adenosinetriphosphatase 6275
  - alcohol dehydrogenase 5175

Genetics *cont.*
- *Lycopersicon esculentum cont.*
  - *Alternaria alternata* 8347
  - blossom-end rot 1846
  - carotenes 13007
  - *Fulvia fulva* 1844, 6275-6276, 8346
  - *Leptinotarsa decemlineata* 6282
  - *Pseudomonas solanacearum* 11892
  - quantitative traits 3056
  - sugars 13012
  - tomato chlorotic spot tospovirus 6280
  - tomato spotted wilt tospovirus 6280
  - tomato yellow leaf curl bigeminivirus 9553
  - *Xanthomonas campestris* 5184
  - zingiberene 6282
- *Lycopersicon hirsutum*
  - *Leptinotarsa decemlineata* 6282
  - zingiberene 6282
- *Lycopersicon pennellii,* quantitative traits 3056
- *Lycopersicon peruvianum,* self incompatibility 1835, 13002
- *Lycopersicon pimpinellifolium*
  - *Fusarium oxysporum* 680
  - *Pseudomonas solanacearum* 11892
- *Malus*
  - isoenzymes 4125
  - peroxidases 4125
  - *Venturia inaequalis* 7256, 10731
- *Malus floribunda*
  - isoenzymes 1891
  - *Venturia inaequalis* 6296
- *Malus micromalus, Venturia inaequalis* 7256
- *Malus pumila* 4122
  - *Alternaria mali* 10729
  - colour 8382
  - fruits 7248
  - habit 10714
  - isoenzymes 1891, 4125
  - peroxidases 4125
  - spur types 10714
  - *Venturia inaequalis* 3120, 5234, 6296, 7248, 7257, 8390, 10730
- mathematics 10032
- *Matthiola incana*
  - flowers 8682
  - growth period 8682-8683
  - leaves 8682
- *Medicago sativa*
  - conferences 1074
  - nodulation 3920
  - plastids 1656
  - *Rhizobium* 7071
  - senescence 1655
  - symbiosis 7071
- *Melilotus alba,* chlorophyll 484
- *Mimulus guttatus*
  - flowers 9873
  - inbreeding depression 9866
  - isoenzymes 999
  - self compatibility 9873
- *Mimulus micranthus,* isoenzymes 999
- *Nicotiana glutinosa,* tobacco mosaic tobamovirus 10942
- *Nicotiana tabacum*
  - cadmium 6494
  - metallothionein 6494
  - sterility 12141
  - tobacco etch potyvirus 3308
  - tobacco mosaic tobamovirus 10942
  - tobacco vein mottling potyvirus 3308
  - toxic substances 6494
- nomenclature 3534
- *Ocimum basilicum,* essential oils 13395
- *Oenothera*
  - male sterility 9871
  - sexual reproduction 2186
- *Oryza rufipogon, Xanthomonas oryzae* 3850
- *Oryza sativa*
  - amylose 12746
  - anthocyanins 11587
  - aroma 1584, 6048
  - colour 11587
  - compatibility 10360
  - cytoplasmic male sterility 1546, 2740, 10365
  - endosperm 12736
  - female fertility 2743

Genetics *cont.*
- *Oryza sativa cont.*
  - gibberellic acid 3827, 3832
  - glutelins 3830, 4893
  - growth period 414-415, 3829, 11580
  - growth regulators 3827, 3832
  - gynoecium 406
  - habit 1548, 1559
  - height 413, 419, 1551, 1556, 2748, 3827, 3830, 3832, 9217, 11578, 11584
  - inflorescences 1548, 1557, 2749
  - internodes 1590
  - *Laodelphax striatella* 12761
  - *Magnaporthe grisea* 3858, 12769
  - male sterility 407, 1540, 1545, 2739, 3825, 4886, 8018
  - morphology 6977
  - *Nilaparvata lugens* 1619, 7009
  - photoperiodism 414-415, 2739, 3825, 6037, 11580, 12741
  - plant embryos 12736
  - prolamins 4893
  - proteins 3830
  - *Pyricularia oryzae* 2770
  - rice stripe tenuivirus 12761
  - seedlings 10368
  - seeds 1548, 1557
  - shedding 1556
  - stems 6978
  - sterility 1551, 2743
  - tillering 10368
  - tissue culture 3838
  - wide hybridization 10360, 12733
  - *Xanthomonas oryzae* 1606, 4900, 6051, 6998, 8042-8043, 8047, 10388, 11607
- *Pachycereus pringlei,* isoenzymes 4463
- *Panicum infestum*
  - apomixis 9185
  - esterases 367
  - isoenzymes 367
  - malate dehydrogenase 367
- *Panicum maximum*
  - apomixis 1213, 9185
  - esterases 367
  - isoenzymes 367
  - malate dehydrogenase 367
- *Panicum trichocladum*
  - apomixis 9185
  - esterases 367
  - isoenzymes 367
  - malate dehydrogenase 367
- *Papaver rhoeas,* self incompatibility 7541-7543, 9915-9916
- pathogenesis-related proteins 3478
- pathogens 3477
- *Pelargonium zonale,* organelles 4391
- *Pennisetum glaucum,* height 11537
- *Petunia hybrida*
  - β-glucuronidase 12264
  - neomycin phosphotransferase 12264
  - regenerative ability 1020
- *Phalaris aquatica*
  - aluminium 2820
  - manganese 2820
  - toxic substances 2820
- *Pharbitis purpurea*
  - *Coleosporium ipomoeae* 3402
  - *Colletotrichum dematium* 3402
  - colour 2190
  - flowers 2190
- *Phaseolus*
  - colour 12874
  - flowers 12874
- *Phaseolus vulgaris*
  - *Colletotrichum lindemuthianum* 2896
  - colour 1724, 12875
  - flowers 1724, 12875
  - phaseolin 3961
  - *Phoma exigua* 2899
  - photoperiodism 3960
  - polypeptides 3961
  - seeds 11745, 12875
  - yield components 11745
- *Phlox drummondii,* self incompatibility 2180
- physiology, conferences 11129
- phytochrome 1136
- *Picea abies*
  - enzymes 3364

Genetics *cont.*
- *Picea abies cont.*
  - isoenzymes 3364
- *Picea orientalis*
  - enzymes 3365
  - isoenzymes 3365
  - malate dehydrogenase 3365
  - phosphoglucomutase 3365
- *Pinus leucodermis,* isoenzymes 4365
- *Pinus pinaster,* globulins 12216
- *Pinus sylvestris*
  - habit 13297
  - isoenzymes 13297
  - manoyl oxide acid 4366
- *Pinus taeda*
  - air pollution 8638
  - ozone 8638
- *Pisum abyssinicum,* trypsin inhibitors 5052
- *Pisum sativum* 6175
  - albumins 556
  - amylose 12897
  - clover yellow vein potyvirus 8203
  - *Erysiphe polygoni* 10526
  - flowering 1238
  - fruits 2909, 7111
  - habit 10519
  - history 2267
  - leaves 1734, 1737-1738, 10519
  - legumin 556
  - male sterility 1733, 11752
  - nitrogen fixation 5056
  - nodulation 5056, 11761
    - reviews 6191
  - pea seed-borne mosaic potyvirus 8203, 10527
  - plant embryos 10527
  - *Pseudomonas syringae* 12900
  - reviews 6176
  - *Rhizobium,* reviews 6191
  - seeds 6179, 7111, 10527
  - starch 5052
  - tendrils 1737
  - trypsin inhibitors 5052
  - vicilin 556
  - waxes 10519
  - white lupin mosaic potyvirus 8203
- *Pleurotus ostreatus,* cellulose 4501
- *Poncirus trifoliata,* acid phosphatase 3175
- *Populus deltoides*
  - *Melampsora allii-populina* 4351
  - *Melampsora larici-populina* 4351
- *Populus tremuloides*
  - *Hypoxylon mammatum* 8608
  - isoenzymes 7446
- *Prunus*
  - coumarins 11956
  - peaches
    - *Meloidogyne incognita* 11985
    - *Pratylenchus vulnus* 11985
  - plums, rootstocks 11955
- *Prunus armeniaca,* male sterility 13059
- *Prunus cerasifera,* rootstocks 11955
- *Prunus cerasus,* isoenzymes 13062
- *Prunus fruticosa,* isoenzymes 13062
- *Prunus persica*
  - habit 8410, 10714
  - height 8410
  - *Myzus persicae* 13070
  - rootstocks 11955
- *Pyrus pyrifolia*
  - fruits 8395
  - quality 8395
  - self incompatibility 4128
- quantitative traits 12428
- *Ranunculus auricomus,* apomixis 1213
- *Raphanus sativus*
  - benzyladenine 3032
  - growth regulators 3032
  - roots 3033
- reviews 88
- *Ribes canadensis, Sphaerotheca mors-uvae* 1901
- *Ribes nigrum, Sphaerotheca mors-uvae* 1901
- *Rosa*
  - anthocyanidins 8662
  - flavonols 8662
- *Rubus idaeus*
  - glucose-6-phosphate isomerase 1899

Genetics *cont.*
- *Rubus idaeus cont.*
  - isocitrate dehydrogenase 1899
  - malate dehydrogenase 1899
  - phosphoglucomutase 1899
  - triose-phosphate isomerase 1899
- *Rubus neglectus*
  - glucose-6-phosphate isomerase 1899
  - isocitrate dehydrogenase 1899
  - malate dehydrogenase 1899
  - phosphoglucomutase 1899
  - triose-phosphate isomerase 1899
- *Sagittaria trifolia,* yield components 12965
- *Salix exigua,* isoenzymes 3346
- *Salix viminalis, Melampsora* 3347
- *Secale cereale*
  - desynapsis 10208
  - glutenins 2654
  - height 2653, 11411
  - isoenzymes 5938
  - male sterility 3698
  - meiosis 11408
  - *Monographella nivalis* 2658
  - quality 2654
  - self incompatibility 5937-5938
- *Secale × Triticum*
  - intergeneric hybridization 3596
  - male sterility 3698
- self compatibility, reviews 10043
- self incompatibility 2381, 2388, 3547
- *Setaria italica,* starch 7982
- sex 3543
- sexual reproduction 3543
- *Silene uniflora,* isoenzymes 2192
- *Silene vulgaris,* isoenzymes 2192
- *Solanum*
  - tuberous species 11809
    - male sterility 8244
- *Solanum chacoense*
  - potato leaf roll luteovirus 10608
  - regenerative ability 12937
- *Solanum demissum, Phytophthora infestans* 8277
- *Solanum gourlayi,* potato M carlavirus 7169
- *Solanum indicum,* inflorescences 4078
- *Solanum megistacrolobum,* potato M carlavirus 7169
- *Solanum melongena*
  - habit 690
  - height 690
  - inflorescences 4078
  - kanamycin 9556
- *Solanum phureja,* carotenoids 5097
- *Solanum spegazzinii, Globodera pallida* 12946
- *Solanum stenotomum,* carotenoids 5097
- *Solanum stoloniferum, Phytophthora infestans* 8277
- *Solanum tuberosum* 11808, 11812-11813
  - carotenoids 5097
  - colour 5096
  - conferences 13411
  - flowers 5096
  - *Globodera pallida* 3009, 7170
  - *Globodera rostochiensis* 2956, 2978
  - heat resistance 8267
  - herbicides 2956
  - male sterility 8244
  - *Phytophthora infestans* 7166, 8277
  - potato leaf roll luteovirus 12945
  - potato leafroll luteovirus 615
  - potato Y potyvirus 7169
  - *Pseudomonas solanacearum* 8267
  - reducing sugars 1791
  - *Synchytrium endobioticum* 2978
  - tubers 1786
- *Sorghum bicolor*
  - *Atherigona soccata* 10316
  - *Cochliobolus lunatus* 2710
  - *Colletotrichum graminicola* 6950
  - drought resistance 11530
  - *Gibberella fujikuroi* 2710
  - photosynthesis 11530
- *Spinacia oleracea, Peronospora spinaciae* 1069
- statistics 12430-12431
- *Striga* 12374
- *Theobroma cacao, Phytophthora palmivora* 9715

Genetics *cont.*
- *Thinopyrum distichum* 7743
- *Trifolium repens*
  - habit 9298
  - internodes 9298
  - nutrients 1661
  - phosphorus 1661
- triticale, regenerative ability 4801
- Triticeae 11312
- *Triticum, Mayetiola destructor* 263
- *Triticum aestivum* 7743, 8939, 11312
  - aluminium 3644-3645
  - amylose 3633
  - awns 8897
  - barley yellow dwarf luteovirus 4729
  - boron 2513
  - chromosome pairing 2474, 3603, 3609, 7752
  - cold resistance 8875
  - colour 10096, 12534
  - cytoplasmic male sterility 3612, 12500
  - *Diuraphis noxia* 3664, 10151-10152
  - dormancy 12508, 12510, 12534
  - dry matter 2487
  - endosperm 1297, 4716
  - *Erysiphe graminis* 247, 1257, 4736-4738, 6779, 8926, 10136-10137, 11362
  - esterases 12535
  - flowering 1238
  - *Gibberella zeae* 2524
  - gibberellic acid 207
  - gibberellins 8900
  - gliadin 2493, 4690, 4712, 7773
  - glumes 10096
  - glutenins 226, 233, 1319, 2493, 2508, 2654, 3632
  - growth regulators 207
  - heat 12510
  - height 207, 1292, 2487, 2490, 3618, 4703, 5874-5875, 8898, 8900-8901, 10101, 11323, 12507, 12530, 12532
  - *Heterodera avenae* 4746
  - *Hordeum vulgare,* salinity 2435
  - hybrid necrosis 12579
  - hybridization 12491
  - inflorescences 10100
  - intergeneric hybridization 3596
  - male sterility 1289
  - *Mayetiola destructor* 8946, 11369
  - nutrients 2513
  - photoperiodism 8875, 10101
  - plant disorders 11327
  - plant hairs 10096
  - proteins 1297, 3633
  - *Puccinia graminis* 1257, 4739-4740, 6770, 6779, 10143, 11364
  - *Puccinia recondita* 253-254, 256-258, 1257, 2560-2563, 3660, 4729, 4739-4740, 4743, 5897-5898, 6770, 6779, 6788, 6792, 6797, 6802, 7813, 8932, 8934, 8936, 10143-10144, 10146-10147, 11364-11365, 12572, 12574, 12576-12577
  - *Puccinia striiformis* 2558, 4729, 5895, 6779, 6790, 6798, 8930, 8933, 10143
  - quality 233, 1319, 2490, 2654
  - salinity 6769
  - *Schizaphis graminum* 8944
  - seeds 4716, 12508, 12534
  - spring and winter habit 2491, 10097
  - sprouting 12508
  - *Tilletia* 1257
  - *Tilletia laevis* 8928
  - *Tilletia tritici* 8928
  - tissue culture, reviews 221
  - toxic substances 3644-3645
  - *Ustilago segetum* 2549, 6787
  - vernalization 10105
  - waxes 10096
  - yield components 2490, 8901, 10101
- *Triticum araraticum*
  - chlorosis 8916
  - hybrid chlorosis 3663
  - hybrid necrosis 3663
- *Triticum boeoticum, Puccinia recondita* 6801

Genetics *cont.*
  Triticum dicoccoides
    chlorosis 8916
    hybrid chlorosis 3663
    hybrid necrosis 3663
    Puccinia graminis 12573
    Puccinia recondita 12573, 12577
  Triticum dicoccum
    Erysiphe graminis 6783
    male sterility 3698
  Triticum durum
    Erysiphe graminis 4738, 6783
    gliadin 2493, 3635, 7773
    glumes 4702
    glutenins 2493, 3635
    habit 7766
    Heterodera avenae 4746
    hybrid necrosis 12579
    inflorescences 7766
    male sterility 3698
    Puccinia recondita 2552, 12577
    quality 3635
    salinity 6769
    waxes 7763
  Triticum monococcum, Puccinia recondita 6801
  Triticum spelta, Puccinia recondita 12575
  Triticum sphaerococcum, Erysiphe graminis 247
  Triticum timopheevii, chlorosis 8916
  Triticum turgidum
    colour 11324
    seeds 11324
  Vaccinium angustifolium
    colour 3145
    fruits 3145
  Vicia faba
    convicine 5014
    isoenzymes 3955, 8167
    legumin 7096
    polypeptides 9382
    vicilin 9382
    vicine 5014
  Vicia sativa, determinate and indeterminate habit 2843
  Vigna mungo
    colour 9441
    fruits 9441
    mung bean yellow mosaic bigeminivirus 9443
  Vigna radiata
    bean common mosaic potyvirus 8232
    Callosobruchus chinensis 593
    Erysiphe polygoni 12923
    Riptortus clavatus 593
  Zea mays 10215, 10244
    anthers 11451
    anthocyanins 2675, 9101-9103
    books 3457
    Busseola fusca 3769
    carotenoids 9115, 10278
    cell division 3734
    Cercospora zeae-maydis 9158
    Cochliobolus carbonum 1467
    Cochliobolus heterostrophus 9153
    cold resistance 1463, 3763
    Colletotrichum graminicola 7958
    colour 7922, 9033, 9035, 9110, 10257, 10282
    cytoplasmic male sterility 9076, 10250
    desynapsis 2679
    development 9047, 9085-9086, 9104
    digestibility 12680-12681
    diseases 11226
    endosperm 7922-7923, 9080, 9082, 9138, 10257
    EPTC 1470
    flavonoids 10262
    gibberellic acid 9098
    β-glucosidase 7921
    glumes 9095, 11451
    glutamate dehydrogenase 3763
    glutathione transferase 352
    growth regulators 9098
    height 9095, 9098, 10258, 12675
    herbicides 1470
    history 3728
    hydroxycinnamic acid 9161
    inflorescences 12672-12673

Genetics *cont.*
  Zea mays cont.
    kanamycin 10227
    leaves 9086, 9094, 9097
    lysine 339, 1447, 10278
    malate dehydrogenase 3763
    male sterility 7913
    maysin 12685
    meiosis 12667
    morphology 3756
    nomenclature 10245
    phosphogluconate dehydrogenase 3763
    phytoene synthase 9043
    plant composition 12681
    pollen 1463
    Puccinia sorghi 2696, 3768
    quality 339, 1454, 10278
    seeds 9085, 9110, 10256
    self incompatibility 1415
    Setosphaeria turcica 4845, 12682
    sex 12672
    silage 12681
    Sitophilus zeamais 9161
    starch 1454, 9138, 11463
    stems 9086
    Striga hermonthica 11515
    transposable elements 9045
    tryptophan 10280
    variegation 10256
    zein 1447, 7918, 9132
    sweetcorn, endosperm 9108
  Zea parviglumis, morphology 3756
Genomes
  Aegilops
    mitochondrial genetics 2571
    restriction fragment length polymorphism 1286, 2571
  Aegilops triuncialis
    mitochondrial genetics 2571
    restriction fragment length polymorphism 2571
  Aegilops × Triticum 12582
  Avena, chromosome banding 6860
  books 12324
  Brassica 1956
    Phyllotreta cruciferae 1960
    restriction fragment length polymorphism 3195
  cereals 11284
  Dasypyrum × Triticum 2460
  Elymus 3886, 4927, 7033, 9259
  Elymus cacuminus 8079
  Elymus caucasicus 4927
  Elymus ciliaris 10405
  Elymus curvifolius 2802
  Elymus dahuricus 10405
  Elymus elongatus 2802
  Elymus farctus 2802
  Elymus geniculata 2802
  Elymus glaucissimus 7033
  Elymus parviglumis 4927
  Elymus patagonicus 7033
  Elymus retroflexus 8079
  Elymus sibiricus 10405
  Elymus spicatus 8079
  Elymus tschimganicus 7033
  Elymus × Leymus, molecular genetics 8077
  Elymus × Psathyrostachys, molecular genetics 8077
  Guizotia abyssinica 6432
  Guizotia scabra 6432
  Guizotia schimperi 6432
  Hibiscus 8582
  Hordeum
    Erysiphe graminis 4659
    Puccinia 4659
  Leymus, molecular genetics 8077
  Musa 6320
    genetic markers 8437
    random amplified polymorphic DNA 8437
  Oenothera 1005
  Oryza 6991
    restriction fragment length polymorphism 2729
  Oryza latifolia 12722
  Oryza officinalis, restriction fragment length polymorphism 2729
  Oryza sativa 7693, 12722

Genomes *cont.*
  Paspalum cromyorrhizon 2811
  Paspalum dilatatum 2811
  Paspalum indecorum 2811
  Paspalum laxum 2811
  Pinus pinaster 12213
  Prunus 1897
  Scilla scilloides 12267
  Secale
    Erysiphe graminis 4659
    Puccinia 4659
  sex 6704
  stress 7588
  Theobroma cacao 3276
  Thinopyrum distichum 2802
  triticale
    Erysiphe graminis 4659
    Puccinia 4659
  Triticum 2481, 8899
    Erysiphe graminis 4659
    molecular genetics 2466
    Puccinia 4659
    restriction fragment length polymorphism 1286, 1320
  Triticum aestivum 7693
    genetic markers 1315
  Triticum duromedium 10083
  Zea mays 9062, 9064
  Zea perennis 9064
Genotrophs, *Linum usitatissimum,* flax 7425
Genotype environment interaction 28, 5855, 7582, 11161, 12369
  Allium cepa, yield components 9515
  Arachis hypogaea 6423
    carbon 6418
    photosynthesis 6418
    yield components 861-862, 13164
  Asparagus officinalis, yield components 12988
  Avena sativa
    forage 6863
    plant composition 1249
    yield components 8975, 12639
  Beta vulgaris, sugarbeet, necrotic yellow vein furovirus 6463
  Brassica campestris
    toria
      sowing date 6351
      yield components 6351
  Brassica juncea, yield components 1953
  breeding 2301
  Cajanus, trypsin inhibitors 12914
  Cajanus cajan 6214
    trypsin inhibitors 12914
    yield components 11775
  Carthamus tinctorius 12065
  Cicer arietinum, yield components 568, 6205, 7128
  Crambe abyssinica
    erucic acid 8508
    quality 8508
  crops, roots 149
  Cyamopsis tetragonoloba, yields 1773
  Diospyros kaki, yield components 8452
  Elaeis guineensis, yield components 1972
  Festuca arundinacea
    Acremonium coenophialum 6068
    ergovaline 6068
  forest trees, computer simulation 2111
  Glycine max 9010, 9360
    quality 11720
    yield components 1706, 4981
  Gossypium 6510
  Gossypium hirsutum
    germination 13240
    seedlings 13240
  Helianthus annuus, yield components 10861
  Hordeum vulgare
    plant composition 1249
    quality 12618
    quantitative traits 4770
    yield components 7849, 8872
    yields 11161
  Ipomoea batatas, yield components 7181
  Lactuca sativa
    Bremia lactucae 7203
    Pemphigus bursarius 7203
  Lens culinaris 11769
    yields 11161
  Linum usitatissimum, linseed 4229

Genotype environment interaction *cont.*
  Lolium perenne 1628
  mathematics 3472
  morphology 11232
  Ocimum basilicum, essential oils 8742
  Oryza sativa 11545, 12751
  Phaseolus vulgaris 8180
    quality 539
  Phleum pratense, quality 1644
  Picea mariana 5598
  Pinus patula 13292
  Pisum sativum
    yield components 6186
    yields 11762
  reviews 29
  Rubus idaeus 5266
  Saccharum officinarum 890, 3261, 5419, 13179
    nitrate reductase 883
    yield components 12102
  Secale cereale, plant composition 1249
  Setaria italica
    growth period 369
    height 369
  Solanum melongena, yield components 1847
  Solanum tuberosum
    fibre 11826
    Globodera pallida 9478
    glycoalkaloids 10587
    statistics 5103
    yield components 10591
    yields 2973, 9471
  Sorghum bicolor
    quality 359
    yields 359, 3775
  statistics 2302-2303, 3473, 12551
  Trifolium subterraneum, digestibility 12815
  triticale 3704
    dormancy 12649
    nitrogen 5942
    nutrients 5942
    yield components 5942, 6873
  Triticum aestivum 3583-3584, 3638, 4718, 7783, 8779
    drought resistance 1327, 6765
    nutrients 2510
    plant composition 1249
    potassium 2510
    quality 3631, 11342
    quantitative traits 10120
    seed production 2478
    statistics 8914, 12551, 12553
    Tilletia laevis 7808
    Tilletia tritici 7808
    yield components 1303, 1327, 6645, 8872, 10122, 12553
    yields 3631
  Triticum durum, yield components 8872
  Tsuga heterophylla, rooting capacity 3367
  Vicia faba, outcrossing 11734
  Vigna radiata, yield components 3989
  Vigna unguiculata 9431
    drought resistance 12918
    water balance 12918
    yield components 8219, 10551
  Zea mays 9010
    Colletotrichum graminicola 346
    forage 11469
    quantitative traits 9051
    statistics 3758, 9005
    yield components 341, 346, 5952, 5975, 10285
Genotype mixtures 1082
  cereals 1251
  Glycine max 11726
  herbage crops 1070
  Hordeum vulgare 1251, 6852, 10188, 10192, 12629
  Phaseolus vulgaris 9385
  Populus deltoides 13271
  Sorghum bicolor 10312
  Stylosanthes 10443
  Triticum aestivum 1251
    quality 7782
    yields 7782
  Triticum durum 1251
  Zea mays 1459, 10303
Gentiana chazaroi, taxonomy 8689
Gentiana kurroo, tissue culture 1044
Gentianaceae
  evolution 8687
  xanthones 8687
Geographical races
  Pinus sylvestris 3355-3356
  Zea mays 1458, 11464, 11478, 11490-11491, 12651
Geography
  Glycine soja 11721
  Pisum sativum 1735
  Stylosanthes 11689
  Vitis vinifera, multivariate analysis 5287
Geraniaceae
  chloroplast genetics
    evolution 3368
    ribulose-bisphosphate carboxylase 3368
    taxonomy 3368
Geranium, pollen 11062
Geranium hakusanense, nomenclature 1008
Geranylgeranyl pyrophosphate synthase, *Arabidopsis thaliana,* nucleotide sequences 10002
Gerbera
  breeding, history 9862
  Frankliniella occidentalis 9880
  induced mutations 1069
  Thrips 9880
Gerbera hybrida
  artificial selection
    flowering 4427
    growth period 4427
  yield correlations 4427
Gerbera jamesonii
  biotechnology 13329
  breeding 3397
  Bremia lactucae 13365
  colour 5638
  morphology 989
  multivariate analysis 989
  mutagens 5636
  Phytophthora cryptogea 7519
  quality 13362
  regenerative ability 5636
  stems 13362
  tissue culture 5633, 5635
  X radiation 5633, 5636
Germany
  Federal Institute for Breeding Research in Viticulture and Horticulture, Siebeldingen, reports 1069
  Federal Institute for Breeding Studies in Viticulture and Horticulture in Siebeldingen/Palatinate, reports 6621
Germin, *Hordeum vulgare,* nucleotide sequences 8950
Germination
  Abelmoschus esculentus 1883
  Abies cephalonica 8646
  Arabidopsis thaliana 5784
    mutations 7645
  Arachis hypogaea 4256
  Beta 6456
  Beta vulgaris, sugarbeet 5432
  Brassica campestris
    turnip rape 3202
    turnips 10617
  Brassica napus
    rape 833, 10617
    swedes 10617
  Brassica oleracea, kale 10617
  Cajanus cajan 6212
  Capsicum annuum 700
    induced mutations 11899
  Cicer 9414
  Cicer arietinum, gene expression 9415
  Cucumis sativus
    combining ability 11934
    heterosis 11934
  Dioscorea 8292
  Elymus spicatus 12797
  Eucalyptus, heterosis 9777
  fodder legumes 12823
  gene expression 3551
  Glycine max 8152, 9343, 9345
  Gossypium hirsutum
    combining ability 4322
    genotype environment interaction 13240
Germination *cont.*
  Helianthus 7338
  Helianthus annuus 7350
  Hordeum vulgare 2613, 11266
    genetics 1356
  Lactuca sativa 654
  Lens culinaris 9411
  Lespedeza cuneata 3934
  Linum usitatissimum, flax 13247
  Lycopersicon esculentum 3059, 9546, 13013
  Medicago sativa, in vitro selection 3921
  Nicotiana tabacum 5456
    mutations 12144
  Oryza sativa 1552, 9219, 10385
  Panicum maximum 12698
  Pennisetum glaucum 4876
  Phalaenopsis 12273
  Phaseolus acutifolius 7102
  Phaseolus vulgaris 2892, 7102
  Phleum pratense 12803
  Picea sitchensis 7486
  Pinus sylvestris 13299
  Poa pratensis 6064
  Pseudotsuga menziesii 7493, 8651
  Saccharum officinarum 12107
  Senna multijuga
    genetic variation 12198
    heritability 12198
  Sorghum bicolor
    combining ability 7977
    genetic variance 360
    heritability 360, 7977
  triticale 2521
  Triticum aestivum 2521, 4697, 11266, 12514
    artificial selection 12560
  Triticum dicoccum 2521
  Triticum durum 2521
  Vicia faba 6149, 7097
  Zea mays 4828, 5968, 9083
    artificial selection 3751
    gene expression 7935
    multivariate analysis 3751
    sweetcorn 4826
Germplasm banks (*see* Gene banks)
Germplasm releases
  Aegilops × *Triticum*
    Erysiphe graminis 10131
    wheat soilborne mosaic furovirus 10131
    wheat spindle streak mosaic bymovirus 10131
  Apium graveolens, Fusarium oxysporum 4043
  Arachis
    Meloidogyne arenaria 12091
    Mycosphaerella arachidis 4264, 12091
    Mycosphaerella berkeleyi 4264, 12091
  Arachis hypogaea
    Meloidogyne arenaria 12091
    Mycosphaerella arachidis 12091
    Mycosphaerella berkeleyi 12091
  Astragalus cicer
    drought resistance 1678
    seedlings 1678
  Beta vulgaris
    sugarbeet 9703
      beet curly top intergeminivirus 9702
      hybridization 9702
      viruses 899
  Brassica napus, swedes, *Erysiphe cruciferarum* 620
  Camellia sinensis 9711, 12117
  Capsicum, ornamental value 8358
  Cicer arietinum
    Ascochyta rabiei 2931
    drought resistance 11772
  crops 5828
  Cynodon dactylon
    Cochliobolus cynodontis 9262
    Spodoptera frugiperda 9262
  Glycine max 12827
    Diaporthe phaseolorum 3952
    fasciation 9346-9347
    herbicides 10449
    oils 9356, 9358
    palmitic acid 9355

Germplasm releases *cont.*
- *Glycine max cont.*
  - *Phomopsis longicolla* 3952
  - *Phytophthora megasperma* 1714
  - proteins 9357
  - quality 9357-9358
- *Gossypium* 938
- *Gossypium hirsutum* 10954, 12159, 12162
  - *Anthonomus grandis* 9758
  - *Helicoverpa zea* 9758
  - *Heliothis virescens* 9758
  - herbicides 4323
  - quality 9747
  - roots 4323
  - trifluralin 4323
- *Helianthus* 4231
- *Helianthus annuus* 9678
  - birds 12062
- *Lotus corniculatus* 11687
  - drought resistance 9311
  - self compatibility 2848
  - yield components 9310
- *Medicago falcata,* tissue culture 3917
- *Medicago sativa*
  - diseases 478-479, 9290-9291, 11668
  - insects 9290
  - leaves 11663
  - pests 478-479, 9291
  - plant hairs 9291
  - *Verticillium albo-atrum* 11668
- *Musa, Mycosphaerella fijiensis* 8443
- *Nicotiana tabacum*
  - internodes 12149
  - leaves 12149
  - nicotine 12151
- *Oryza sativa* 9194
  - *Magnaporthe salvinii* 9237
  - quality 9227
  - seeds 9227
  - *Xanthomonas oryzae* 12763
- *Panicum coloratum,* shedding 11532
- *Panicum maximum,* sexual reproduction 10317
- *Pennisetum glaucum*
  - cytoplasmic male sterility 3783
  - digestibility 377
  - diseases 11541
- *Phaseolus vulgaris*
  - *Sclerotinia sclerotiorum* 10510
  - *Xanthomonas campestris* 10510
- *Sorghum bicolor* 6912, 11517
  - *Contarinia sorghicola* 3780
  - *Gibberella fujikuroi* 3778
  - male sterility 11522
  - *Peronospora sorghi* 3778
  - senescence 1481
- *Sphaeralcea coccinea,* forage 3935
- *Sphaeralcea munroana,* forage 3936
- *Trifolium repens*
  - habit 9298
  - internodes 9298
- *Triticum aestivum* 168, 241, 3585, 8939, 11296, 11299, 12482
  - aluminium 3647
  - awns 214
  - *Cephus cinctus* 11371
  - *Diuraphis noxia* 11370
  - *Erysiphe graminis* 10131
  - growth period 10068
  - height 12506
  - *Mayetiola destructor* 8946
  - *Pseudocercosporella herpotrichoides* 3654
  - *Puccinia recondita* 10142
  - quality 3630
  - *Schizaphis graminum* 3665
  - soil toxicity 3647
  - wheat soilborne mosaic furovirus 10131
  - wheat spindle streak mosaic bymovirus 10131
- *Zea mays*
  - *Aspergillus flavus* 347
  - *Chilo partellus* 9165
  - cytoplasmic male sterility 9070
  - growth period 9105
  - hybrid seed production 9052
  - *Spodoptera frugiperda* 11513
  - sweetcorn, *Ostrinia nubilalis* 11514

Gerritea, taxonomy 3904

Gerritea pseudopetiolata, taxonomy 3904

Geum
- chromosome morphology 2178
- chromosome number 2178

Gibberella
- *Secale cereale* 3581
- *Sorghum bicolor* 12696
- triticale 3581
- *Triticum aestivum* 3581
  - artificial selection 4666
- *Zea mays* 4839, 7963

Gibberella acuminata, *Triticum aestivum* 2530

Gibberella avenacea
- *Triticum aestivum* 12566
- *Vicia faba* 2883

Gibberella cyanogena, *Solanum tuberosum,* combining ability 8272

Gibberella fujikuroi
- *Lycopersicon esculentum* 10680
- *Oryza sativa* 8048, 9235-9236
- *Pinus elliottii, in vitro* selection 3362
- *Secale cereale* 12567
- *Sorghum bicolor* 1487, 6930, 6947
  - genetics 2710
  - germplasm releases 3778
- *Triticum aestivum* 12567
- *Triticum durum* 12567
- *Zea mays* 3766, 6909, 9155-9157, 10294, 10297, 10680

Gibberella zeae
- *Elymus giganteus* 242
- *Elymus × Triticum* 242
- *Hordeum vulgare* 2625
- *Secale cereale* 4660
  - combining ability 2656, 2659
  - genetic variance 2659
  - heritability 2659
- triticale 4660
  - genetic variance 2666
  - *in vitro* selection 2664
- *Triticum aestivum* 243-245, 1331, 2525, 2530, 2537-2538, 2540-2541, 2543, 2625, 4660, 4730, 6774, 6782, 6785, 11359, 12566
  - artificial selection 8920
  - combining ability 2524
  - genetics 2524
  - haploidy 4733
  - *in vitro* selection 1332, 2531, 4731
  - induced mutations 1332
- *Triticum durum,* somaclonal variation 2533
- *Zea mays* 5987, 6909, 7957, 7961, 11499
  - combining ability 2695
  - gene mapping 9152
  - linkage 3767
  - random amplified polymorphic DNA 3767
  - restriction fragment length polymorphism 3767

Gibberellic acid
- *Arabidopsis thaliana*
  - mutations 5784, 8820
  - nucleotide sequences 7638
- *Beta vulgaris,* sugarbeet, genetic variance 897
- *Citrus maxima* 1914
- *Helianthus annuus* 5385
- *Hordeum vulgare* 2611
- *Nicotiana tabacum,* genetic transformation 5451
- *Oryza sativa* 421
  - gene expression 11565
  - genetics 3827, 3832
- *Pennisetum glaucum* 374
- *Secale cereale,* mutations 5939
- *Triticum aestivum* 3618, 12507, 12521
  - genetics 207
  - pleiotropy 12527
- *Zea mays*
  - genetics 9098
  - molecular genetics 7897

Gibberellins
- *Arabidopsis thaliana*
  - genetics 69
  - mutations 69
- *Avena sativa,* gene expression 155
- conifers 148
- *Hordeum vulgare,* gene expression 155, 267, 3671

Gibberellins *cont.*
- *Lycopersicon esculentum*
  - gene expression 10660
  - mutations 10660
- *Oryza sativa* 8024
  - mutations 3834
- *Pinus banksiana* 8633
- *Pinus radiata* 148
- *Pisum sativum* 10519
  - mutations 549, 6184, 11755, 11758, 12894
- *Trifolium pratense,* mutations 8110
- *Triticum aestivum*
  - gene expression 155
  - genetics 8900
- *Zea mays,* heterosis 148

Ginkgo biloba
- gene expression, chlorophyll *a/b* binding protein 4385
- molecular genetics
  - chlorophyll *a/b* binding protein 4385
  - taxonomy 8629
- nucleotide sequences
  - proteins 13323
  - protochlorophyllide reductase 12226
  - seeds 13323
- ovule culture 988
- polymerase chain reaction
  - proteins 13323
  - seeds 13323
- protoplasts 988

Gladiolus
- chromosome morphology 1021
- chromosome number 1021
- photoperiodism 12269
- polyploidy 1021
- tissue culture 8707

Gladiolus dalenii, yield correlations 6587

Gladiolus hortulanus, varieties, Morning Mist 4442

Glands (*see* Plant glands)

Gleditsia triacanthos, varieties, Prairie Sky 4389

Gliadin
- *Aegilops searsii* 7825
- *Aegilops squarrosa* 7777
  - genetic variation 7826
- *Triticum* 7777
- *Triticum aestivum* 206, 229, 1294, 7757, 12540, 12542
  - gene mapping 7730
  - genetic markers 209, 1314-1315, 11344
  - genetics 2493, 4690, 4712, 7773
  - linkage 4690
  - mutations 4712
  - polymorphism 2507, 7773
  - somaclonal variation 2509, 7774
- *Triticum boeoticum* 7777
- *Triticum dicoccoides*
  - polymerase chain reaction 7728
  - restriction fragment length polymorphism 7728
- *Triticum dicoccum* 7776
- *Triticum durum* 231, 8907
  - artificial selection 3629
  - gene location 4713
  - genetic markers 1315, 6759
  - genetics 2493, 3635, 7773
  - linkage 4713
  - polymorphism 7773
- *Triticum monococcum* 7777
- *Triticum urartu* 7777

Gliricidia sepium
- agroforestry 12202
- digestibility 4962
- palatability 4967
- provenance trials 12195, 12202
- variety trials 4962

Globodera, *Solanum tuberosum* 2975

Globodera pallida
- *Solanum* 3010
  - tuberous species 11842
- *Solanum spegazzinii*
  - gene location 12946
  - genetics 12946
  - restriction fragment length polymorphism 12946
- *Solanum tuberosum* 3008, 3010-3012, 10592, 11842
  - artificial selection 3006-3007

Globodera pallida *cont.*
- *Solanum tuberosum cont.*
  - genetics 3009, 7170
  - genotype environment interaction 9478

Globodera rostochiensis
- *Solanum* 3010
  - tuberous species 11842
- *Solanum spegazzinii*
  - gene location 5117
  - restriction fragment length polymorphism 5117
- *Solanum tuberosum* 3010-3012, 10592, 11842
  - artificial selection 3006
  - gene mapping 11834
  - genetics 2956, 2978
  - restriction fragment length polymorphism 2976, 11834

Globodera solanacearum, *Nicotiana tabacum,* gene expression 4313

Globulins
- *Avena sativa,* nucleotide sequences 12634
- *Beta vulgaris,* sugarbeet 5431
- *Cicer arietinum,* heterosis 1752
- *Lotus corniculatus* 6095
- *Oryza sativa,* nucleotide sequences 8010
- *Pinus pinaster,* genetics 12216
- *Vigna mungo,* mutations 5076
- *Zea mays* 7944, 9135-9136

Gloeocercospora sorghi, *Sorghum bicolor* 6946

Gloeosporium *(see also Colletotrichum; Glomerella; Pyrenopeziza)*

Glomerella *(see also Colletotrichum)*

Glomerella cingulata
- *Capsicum* 4099
- *Coffea arabica*
  - combining ability 10922
  - heritability 10922
- *Dioscorea, in vitro* selection 9490, 11852
- *Manihot esculenta* 3022
  - *in vitro* selection 3024
- *Stylosanthes* 10443

Glomerella tucumanensis
- *Saccharum* 8519
- *Saccharum officinarum* 892-893, 8517-8518

Glomus
- *Pisum sativum* 11753
  - mutations 10522

Glomus mosseae, *Pisum sativum,* mutations 551

Glomus versiforme, *Medicago truncatula,* gene expression 10425

Gloriosa plantii
- chromosome aberrations 2201
- chromosome pairing 2201

Gloriosa superba, tissue culture 13370

1,4-α-Glucan branching enzyme
- *Manihot esculenta,* gene expression 11848
- *Zea mays*
  - gene expression 10270
  - genetic engineering 10270
  - molecular genetics 3720
  - mutations 3720
  - transposable elements 3720

β-Glucanase
- *Hordeum vulgare*
  - gene expression 2582
  - genetic engineering 2582
  - genetic transformation 2582
- *Nicotiana tabacum*
  - gene expression 9730
  - genetic transformation 9730
- *Nicotiana tomentosiformis*
  - gene expression 9730
  - genetic engineering 9730
- 5743
- *Arabidopsis thaliana*
  - gene expression 4203
  - molecular genetics 5776
  - nucleotide sequences 4203
- *Avena sativa,* nucleotide sequences 4786
- *Brassica napus*
  - gene expression 4203
  - nucleotide sequences 4203
- *Hordeum vulgare*
  - gene expression 266, 11379

β-Glucanase *cont.*
- *Hordeum vulgare cont.*
  - genetic engineering 266
  - molecular genetics 1344
  - nucleotide sequences 11379
- *Lycopersicon esculentum* 6278
  - gene expression 8350
  - nucleotide sequences 8350
- *Nicotiana plumbaginifolia*
  - gene expression 6479
  - genetic engineering 6479
- *Nicotiana sylvestris*
  - gene expression 5465
  - genetic transformation 5465
- *Nicotiana tabacum*
  - gene expression 5456, 6479, 9718
  - genetic transformation 5456, 6479
  - nucleotide sequences 9718
- *Sambucus nigra*
  - gene expression 9613
  - nucleotide sequences 9613
- *Solanum tuberosum*
  - gene expression 6229
  - nucleotide sequences 6229

β-Glucan
- *Avena sativa* 1380-1381, 7867
- *Avena sterilis* 1381
- *Hordeum vulgare* 2619

Glucans, *Hordeum vulgare* 12613-12614

Glucosamine, *Oryza sativa* 4901

Glucose dehydrogenase
- *Hordeum vulgare*
  - gene expression 12594
  - nucleotide sequences 12594

Glucose-1-phosphate adenylyltransferase
- *Arabidopsis thaliana,* nucleotide sequences 4590
- *Hordeum vulgare*
  - gene mapping 6834
  - restriction fragment length polymorphism 6834
- *Nicotiana tabacum,* gene expression, genetic transformation 10566
- *Solanum tuberosum*
  - gene expression, genetic transformation 10566
  - nucleotide sequences 10566
- *Triticum aestivum*
  - gene location 185
  - molecular genetics 185
- *Zea mays*
  - gene expression 5973
    - mutations 9084
  - genetic engineering 3724
  - genetic transformation 3724
  - molecular genetics 5973

Glucose-6-phosphate dehydrogenase
- *Lycopersicon esculentum* 10670
- *Solanum tuberosum,* molecular genetics 7158

Glucose-6-phosphate isomerase
- *Aegilops squarrosa,* genetic variation 7826
- *Arabidopsis thaliana,* molecular genetics 3391
- *Clarkia lewisii,* molecular genetics 3391
- *Dianthus caryophyllus* 3394
- *Eustoma grandiflorum,* genetics 4424
- *Lolium rigidum,* polymorphism 11629
- *Musa,* genetic variation 788
- natural selection 6716
- *Rubus idaeus,* genetics 1899
- *Rubus neglectus,* genetics 1899
- *Triticum aestivum* 6749
- *Triticum durum* 6749

Glucose transporter, *Saccharum,* nucleotide sequences 8511

β-Glucosidase
- *Lycopersicon esculentum* 5187
- *Zea mays*
  - gene expression 7916
  - genetics 7921

Glucosinolates
- *Arabidopsis thaliana*
  - genetics 9667
  - restriction fragment length polymorphism 6349
- *Brassica campestris,* turnip rape, techniques 7328
- *Brassica juncea* 10847
  - induced mutations 3204

Glucosinolates *cont.*
- *Brassica napus*
  - maternal effects 10848
  - rape 3190, 3205, 5372, 5374, 6349-6350, 6352, 8479, 8483, 10847, 10852, 12049-12050, 13141
    - artificial selection 7329
    - genetics 3206, 9667
    - restriction fragment length polymorphism 6349
    - techniques 7328

β-Glucuronidase
- *Nicotiana tabacum*
  - gene expression 8547
  - genetic transformation 8547
- *Lycopersicon*
  - gene expression 11884
  - genetic transformation 11884
- *Nicotiana*
  - gene expression 12132
  - genetic transformation 12132
- *Nicotiana tabacum*
  - gene expression 9724, 12130, 12138, 13233
  - genetic transformation 12130, 12138, 13233
- *Petunia hybrida*
  - gene expression 12264
  - genetic transformation 12264
  - genetics 12264
- *Rubus*
  - gene expression 12132
  - genetic transformation 12132

Glufosinate
- *Beta vulgaris,* sugarbeet, genetic transformation 10058
- *Brassica napus,* rape, genetic transformation 841, 6354, 10058
- *Daucus carota*
  - gene expression 9973
  - genetic transformation 9973
- *Medicago sativa*
  - gene expression 9973
  - genetic transformation 9973
- *Nicotiana tabacum*
  - gene expression 9973
  - genetic transformation 9973
- *Triticum aestivum,* genetic transformation 264-265, 4681, 5899
- *Zea mays*
  - genetic transformation 5991, 9167, 10058
  - *in vitro* selection 5991

Glufosinate acetyltransferase
- *Brassica napus,* rape, genetic transformation 7688
- crops, genetic transformation 7688
- *Lycopersicon esculentum,* genetic transformation 7688
- *Medicago sativa,* genetic transformation 7688
- *Nicotiana tabacum,* genetic transformation 7688
- *Zea mays,* genetic transformation 7688

Glumes
- *Aegilops × Triticum*
  - genetics 10096
  - inhibitor genes 10096
- *Oryza sativa* 12732
- *Triticum aestivum*
  - genetics 10096
  - inhibitor genes 10096
- *Triticum durum*
  - genetics 4702
  - pleiotropy 4702
- *Zea mays*
  - genetics 9095, 11451
  - linkage 11451
  - mutations 9092
  - pleiotropy 9095

Glutamate-ammonia ligase
- *Arabidopsis thaliana,* gene expression 11219
- *Brassica napus,* rape, nucleotide sequences 5351, 12032
- *Glycine max,* gene expression 6127
- *Hordeum vulgare,* molecular genetics 1340
- *Medicago truncatula,* gene expression 2825
- *Nicotiana tabacum,* gene expression 6174

Glutamate-ammonia ligase *cont.*
- *Pisum sativum*
  - gene expression 5047
  - genetic engineering 6174
- *Zea mays*
  - gene expression 316
  - molecular genetics 316

Glutamate dehydrogenase
- *Lycopersicon esculentum* 10670
- *Zea mays,* genetics 3763

Glutamate-1-semialdehyde, *Glycine max,* gene expression 519

Glutamate 1-semialdehyde 2,1-aminomutase
- *Arabidopsis thaliana*
  - complementation 6676
  - gene expression 6676
  - nucleotide sequences 6676

Glutamate synthase
- *Hordeum vulgare*
  - gene expression 3670
  - mutations 3670
  - nucleotide sequences 3670
- *Lycopersicon esculentum,* gene expression 7221
- *Medicago sativa,* molecular genetics 3910

Glutamic acid, *Raphanus sativus* 629

Glutamic acid kinase, *Nicotiana tabacum,* genetic transformation 7402

Glutamine tRNA reductase
- *Arabidopsis thaliana*
  - complementation 6676
  - gene expression 6676
  - nucleotide sequences 6676

Glutathione reductase
- *Arabidopsis thaliana*
  - gene expression 10012
  - nucleotide sequences 10012
- gene expression 11187
- genetic transformation 11187
- molecular genetics, reviews 8783
- *Nicotiana tabacum,* genetic transformation 9729
- *Pinus sylvestris,* gene expression 6553
- *Pisum sativum*
  - gene expression 12899
  - molecular genetics 6173
- *Zea mays* 5983

Glutathione reductase (NADPH), *Glycine max,* nucleotide sequences 9334

Glutathione transferase
- *Zea mays*
  - gene expression 9168
  - genetics 352

Glutelins
- *Elymus ciliaris* 10405
- *Elymus dahuricus* 10405
- *Elymus sibiricus* 10405
- *Nicotiana tabacum,* genetic transformation 11556
- *Oryza*
  - gene expression 11582
  - molecular genetics 11582
- *Oryza sativa*
  - gene expression 10379, 11556
  - genetic engineering 11556
  - genetics 3830, 4893
  - induced mutations 4893
  - linkage 3830
- *Zea mays,* molecular genetics 9140

Gluten
- *Triticum aestivum* 1317, 2506, 4711, 6760, 10114, 11339
- *Triticum durum* 6760, 11339
  - artificial selection 3629

Glutenins
- *Aegilops* 7795
- *Aegilops searsii* 7825
- *Aegilops squarrosa* 7777
  - genetic variation 7826
- *Aegilops* × *Secale,* genetics 2654
- *Secale cereale,* genetics 2654
- triticale, chromosome translocation 10214
- *Triticum* 7777, 7795
- *Triticum aestivum* 230, 1318, 2503, 8908, 12546
  - epistasis 7775
  - gene expression 5860, 7778
  - genetic markers 209, 11344, 12548

Glutenins *cont.*
- *Triticum aestivum cont.*
  - genetics 226, 233, 1319, 2493, 2508, 2654, 3632
  - molecular genetics 1277-1278, 3636, 5860
  - pleiotropy 12533
  - polymerase chain reaction 1277, 8883, 12548
  - restriction fragment length polymorphism 8883
  - somaclonal variation 7774
  - *Triticum compactum, Triticum vavilovii* 7772
  - *Triticum spelta, Triticum vavilovii* 7772
  - *Triticum sphaerococcum, Triticum vavilovii* 7772
- *Triticum boeoticum* 7777
- *Triticum dicoccoides*
  - polymerase chain reaction 7728
  - restriction fragment length polymorphism 7728
- *Triticum durum* 1312, 1318, 8907
  - gene location 4713
  - genetics 2493, 3635
  - linkage 4713
- *Triticum monococcum* 7777
- *Triticum urartu* 7777

Glycans, *Arabidopsis thaliana,* induced mutations 79

Glyceraldehyde-3-phosphate dehydrogenase
- *Agaricus bisporus,* molecular genetics 1064
- angiosperms, molecular genetics 3562
- *Arabidopsis thaliana*
  - gene expression 5778, 10011
  - genetic engineering 10011
- *Atriplex nummularia,* nucleotide sequences 9922
- *Nicotiana tabacum,* genetic transformation 10011
- *Phanerochaete chrysosporium,* molecular genetics 1064
- *Schizophyllum commune,* molecular genetics 1064

Glycerate dehydrogenase, *Pinus edulis,* genetic variation 11025

Glycerol-3-phosphate acyltransferase
- *Pisum sativum*
  - gene expression 8187
  - genetic engineering 8187

Glycinamide ribonucleotide transformylase
- *Arabidopsis thaliana*
  - molecular genetics 10005
  - nucleotide sequences 10005

Glycine
- genetics
  - colour 10479
  - growth period 510
  - seeds 10479
- heritability, growth period 510
- interspecific hybridization 509
- linkage, restriction fragment length polymorphism 12826
- pollen germination 509
- proteins 2857
- seeds 2857
- sterility 509
- taxonomy 8159
- waterlogging 3950

Glycine decarboxylase
- *Nicotiana tabacum*
  - gene expression 10520
  - genetic transformation 10520
- *Pisum sativum*
  - gene expression 10520
  - molecular genetics 1731

Glycine dehydrogenase (decarboxylating)
- *Flaveria pringlei,* nucleotide sequences 9865
- *Solanum tuberosum,* nucleotide sequences 9452

Glycine formosana, interspecific hybridization 510, 10479

Glycine gracilis
- backcrossing 12839
- combining ability, yield components 12835, 12841

Glycine gracilis *cont.*
- habit 12839
- heritability, yield components 10473
- interspecific hybridization 10473, 11724, 12835, 12839, 12841
- isoenzymes 1704
- salinity 11724
- seeds 12839
- soil types 11724

Glycine latifolia, mitochondrial genetics 12833

Glycine max
- air pollution 10489
- aluminium 4994, 12862
- amino acids 517, 1710, 6138
- aneuploidy 7082
- artificial selection 10478
  - chlorosis 9365
  - fusaric acid 7095
  - *Fusarium* 7095
  - iron 2868, 9365
  - lipoxygenase 2865
  - nitrogen 6130
  - nitrogen fixation 9364
  - nodulation 9364
  - nutrients 2868, 6130
  - oils 3945
  - proteins 1707, 3945, 11697
  - quality 2865
  - seeds 3945, 6136
  - source sink relations 6136
  - yield components 1692, 10483, 11697
  - yields 6130
- azacytidine 10474
- backcrossing 12839
- bean pod mottle comovirus 8161
- boron 1711-1712
- *Bradyrhizobium* 7090, 10488, 11723, 11725
- breeders' rights 502
- breeding 503, 6103-6104, 6120, 7076, 10453
  - history 6134, 9321, 10450
  - reviews 10480
- cell division 9338
- *Cercospora sojina* 7077
- chloride 9368
- chlorimuron 2877
- chloroplast genetics 3941
- chromosome morphology 9338
- chromosome pairing 7082
- climate 11277, 11695
- cold resistance 11695, 12863
- combining ability
  - *Cercospora sojina* 7094
  - crop mixtures 4993
  - oils 518
  - proteins 518
  - yield components 3947, 4993, 8156, 12835, 12841
- copper 8160
- crop density 7092
- crop mixtures, *Cajanus cajan* 500
- determinate and indeterminate habit 1703, 2856, 6130, 6133, 9349, 11703, 11710, 12835, 12840-12841
- *Diaporthe phaseolorum* 9372
- digestibility 517
- DNA 8150, 9338, 11712
- dominance, growth period 511
- embryo culture 1241
- endosperm 8150
- *Epilachna varivestis* 9378-9379
- epistasis
  - flowering 12843
  - photoperiodism 12843
  - quantitative traits 11713
  - temperature 12843
- esterases 4988
- ethyl methanesulfonate 3948, 9354
- ethyleneimine 10477
- *Etiella zinckenella* 10493
- experimental design 10451
- fatty acids 2864
- flavonol glycosides 9366
- flooding 9367, 11730
- flowering 5835, 9350, 12863
  - mathematics 12838
- flowers 9350
- forage 10485
- fruits 11705-11706

Glycine max *cont.*
  Fusarium solani 9369
  gamma radiation 1709, 7081, 11701
  gene banks 6119, 11269, 11696
  gene expression 10466, 10471, 11209
    abscission 8155
    acid phosphatase 10465
    δ-aminolevulinic acid dehydratase 10470
    auxins 506, 6128, 8149, 10463
    Bradyrhizobium 520
    brassinosteroids 6126, 8154
    cellulase 8155
    β-conglycinin 6123, 8147, 9335
    coproporphyrinogen oxidase 507
    4-coumarate:CoA ligase 525
    dihydrokaempferol 4-reductase 12842
    disulfide isomerase 3914
    DNA binding proteins 10464
    embryogenesis 7080
    ferric leghaemoglobin reductase 8146
    ferritin 6140
    glutamate-ammonia ligase 6127
    glutamate-1-semialdehyde 519
    glycinin 3942, 9337
    growth regulators 506, 6128, 8153-8154
    heat shock 5767, 12466
    isoenzymes 4989
    leghaemoglobin 10464
    lipoxygenase 8148, 10481
    naringenin-chalcone synthase 12842
    nodulation 519-521, 523, 2870, 6140
    nodulins 2870
    phosphate 10465
    phosphoenolpyruvate carboxylase 12466
    Phytophthora megasperma 525, 2872
    plant embryos 11274
    protoplasts 505
    Rhizobium 520
    ribulose-bisphosphate carboxylase 12466
    seeds 6123
    sucrose 8153, 10465
    tubulin 7079
    urease 4989
  gene mapping 6124
    auxins 10463
  genetic distance 10472
  genetic engineering 11209, 12832
    auxins 6128
    β-conglycinin 6123, 9335
    glycinin 3942
    growth regulators 6128
    heat shock 5767
    nodulation 2870
    nodulins 2870
    seeds 6123
    tubulin 7079
  genetic markers 2858
    isoenzymes 11704
  genetic resources 5829, 6104, 6118-6119, 10450, 10452, 11269, 11696, 12828
  genetic transformation 1697, 2854, 9332, 10471, 12809, 12830, 12834
    Agrobacterium tumefaciens 10490
    protoplasts 505
  genetic variance
    Heterodera glycines 6142
    yield components 11714, 12857
  genetics
    Bradyrhizobium 9362
    Cercospora sojina 6141
    colour 2861, 6131
    fasciation 9346-9347
    flowering 12843-12844, 12850
    flowers 2861, 6131
    fruits 12855
    Fusarium solani 3951
    growth period 11707
    Heterodera glycines 6142, 11732
    Microsphaera diffusa 9371
    palmitic acid 8158, 9353, 11722
    peroxidases 6135
    Phialophora gregata 12865
    photoperiodism 12843-12844
    Phytophthora megasperma 1715
    Phytophthora sojae 9374
    plant hairs 12850
    quality 8158, 9353

Glycine max *cont.*
  genetics *cont.*
    quantitative traits 2858
    seeds 6135, 12842, 12855
    soybean mosaic potyvirus 526, 3953, 9375
    superoxide dismutase 3946
    temperature 12843
  genotype environment interaction 9010, 9360
    quality 11720
    yield components 1706, 4981
  genotype mixtures 11726
  germination 8152, 9343, 9345
  germplasm releases 12827
    Diaporthe phaseolorum 3952
    fasciation 9346-9347
    herbicides 10449
    oils 9356, 9358
    palmitic acid 9355
    Phomopsis longicolla 3952
    Phytophthora megasperma 1714
    proteins 9357
    quality 9357-9358
  growth period 512, 6124, 6130, 9344-9345, 9348, 10478, 11703, 11706, 11709, 11712
  habit 12839, 12848
  hard seeds 10475, 12846
  harvesting 11709
  height 1700, 10478, 12848
  herbicides 2877
  heritability
    Agrobacterium tumefaciens 12864
    Heterodera glycines 6142
    leaves 12856
    statistics 11700
    yield components 7085, 10473, 11714, 12854, 12856-12857
  Heterodera glycines 527, 6143, 9326-9327
  heterosis
    harvest index 1702
    stems 1702
    yield components 2862, 3947, 6137, 8156
  immunology
    disulfide isomerase 3914
    vitronectin 8708
  in vitro selection
    amino acid derivatives 11276
    salinity 11276
    stress 11276
  induced mutations 2855, 10449, 10474, 10478, 11701
    chlorophyll 7081
    fatty acids 9354
    nodulation 3948
    oils 1709
    proteins 1709
    yield components 7081, 12854
  interspecific hybridization 504, 510, 520, 3943, 3946, 10473, 10479, 11724, 12835-12836, 12839, 12841
  iron 8160
  irrigation 9010
  isoenzymes 1704, 2873, 4988
  lasers 10477
  lead iodide 2855
  lead nitrate 2855
  leaves 7084
  linkage 2853
    fluorescence 12852
    nodulation 3948
    plant hairs 12852
    proline-rich proteins 11702
    quantitative traits 2859
    seeds 12852
  lysine 517
  Macrophomina phaseolina 2418
  malate dehydrogenase 12851
  male sterility 3944
  manganese 1712
  Meloidogyne incognita 9327
  Microsphaera diffusa 9370
  mitochondrial genetics 10469
    adenosinetriphosphatase 1698
  molecular genetics 63, 9336, 10466, 11209
    acyl-CoA desaturase 1154
    adenosinetriphosphatase 8144

Glycine max *cont.*
  molecular genetics *cont.*
    coproporphyrinogen oxidase 507
    4-coumarate:CoA ligase 525
    dihydrokaempferol 4-reductase 12842
    ferric leghaemoglobin reductase 8146
    lipoxygenase 8148
    naringenin-chalcone synthase 12842
    nodulation 521, 3948, 10468, 11728
    Phytophthora megasperma 525
    proline-rich proteins 11702
    vitronectin 8708
  multivariate analysis
    aluminium 12861
    Cercospora sojina 7093
    soil toxicity 12861
    yield components 10482
  mutagens 2855, 3948, 10474, 10477
  mutations
    Bradyrhizobium 522
    chlorophyll 11708, 12853
    colour 2861
    flowers 2861
    malate dehydrogenase 12853
    nitrates 11729
    nitrogen fixation 9361
    nodulation 522-523, 2867, 9361, 11728-11729
    photosynthesis 11708
    seeds 12842
  mycorrhizas 9363
  nitrogen 2867
  nitrogen fixation 2869, 7090, 9363, 10476, 11727
  nitrogenase 10487
  nodulation 10487
  nucleotide sequences
    abscission 8155
    adenosinetriphosphatase 8144
    δ-aminolevulinic acid dehydratase 10470
    ascorbate peroxidase 4986
    brassinosteroids 6126
    cellulase 8155
    chlorophyll *a/b* binding protein 10467
    DNA binding proteins 10464
    embryogenesis 7080
    glutathione reductase (NADPH) 9334
    GTP-binding proteins 11699
    leghaemoglobin 10464
    lipoxygenase 10481
    oxidoreductases 8145
    phosphoenolpyruvate carboxylase 7078
    protein kinase 1699
    pyruvate kinase 4987
    ubiquitin 9333
  nutrients 1711-1712, 2867, 6139, 8160, 9379
  nutritive value 517, 4978, 9352, 11716
  oils 517, 4981
  Ophiomyia phaseoli 2876
  outcrossing 6129, 9339
  ozone 10489
  peroxidases 4988
  Phomopsis 8161
  Phomopsis longicolla 9345
  phosphorus 2867, 6139
  photoperiodism 512, 5835, 12847
  photosynthesis 10476, 12845
  physiology, reviews 10480
  Phytophthora sojae 9373, 11730, 12867-12868
  plant composition 2863-2864, 7088, 9352, 9359, 12860
  plant embryos 8150
  plant introduction 11695
  pleiotropy
    colour 1701
    seeds 1701
  pollen 8151
  pollination 3944
  polymorphism, isoenzymes 11698
  polyploidy 8150
  proteins 517, 2857, 4981, 4988, 6132-6133, 11719, 12840
  protoplasts 505
  Pyrenochaeta glycines 2871
  quality 516, 1708, 2866, 6138, 7088, 11717-11719
  radiation 10449

Glycine max *cont.*
- random amplified polymorphic DNA 6125, 12831
  - *Heterodera glycines* 10492
  - variety classification 11698
- restriction fragment length polymorphism 508, 2853, 6124, 10469
  - chloroplasts 6129
  - *Heterodera glycines* 6144, 10492
  - inbreeding 6121
  - isoenzymes 4989
  - mitochondria 6129
  - nodulation 10468
  - quantitative traits 2858-2859, 11713
  - soybean mosaic potyvirus 8164
  - urease 4989
  - variety classification 11698
- *Rhizobium* 7090, 11727
- *Rhizoctonia solani* 10491
- salinity 11724
- *Sclerotinia sclerotiorum* 524, 8162, 12866
- seed moisture 11711
- seeds 2857, 2863, 4988, 6132-6133, 6138-6139, 7088, 8152, 9342, 11709, 12839-12840, 12860
- shedding 514, 11705
- silver iodide 2855
- silver nitrate 2855
- sodium 8160
- soil pH 4994, 12862
- soil toxicity 12862
- soil types 1713, 11724
- somaclonal variation
  - quality 8157
  - yield components 8157
- source sink relations 12845
- sowing date 1706, 10454, 11703
- soybean mosaic potyvirus 2873-2874, 4995, 11731
- soybean yellow mosaic virus 8163
- spring and winter habit 11725
- stability 7091
  - yields 9349
- stearic acid 7089
- stems 1700
- stomata 7083
- storage, seeds 9341, 11711, 12846
- stress 11277
- superoxide dismutase 12860
- temperature 9343
- threonine 517
- tissue culture 515, 1712, 4990-4992, 7086, 9351, 10484, 11715, 12859
- tobacco necrosis necrovirus 2875
- tobacco ringspot nepovirus 8772
- toxic substances 4994, 9368
- translocation 10476
- transposable elements 2861
- *Trichoplusia ni* 9377
- trypsin inhibitors 4974
- ultraviolet radiation 1709, 3949, 9366
- variety classification 2860, 4988, 9340
- variety trials 139, 1693, 1713, 2851, 3564, 4982, 5726, 7077, 7583, 9010, 10454-10455, 12828
- waterlogging 3950
- yield components 6131, 6134, 7084, 7092, 9348, 10452, 10477, 12849
  - multivariate analysis 12858
- yield correlations 1703, 1705, 4981, 11697, 11714, 12856-12857
  - statistics 11700
- zinc 1712
- rape
  - gene expression, acyl-CoA desaturase 13122
  - nucleotide sequences, acyl-CoA desaturase 13122
- varieties 4646, 8862, 10450
  - Agassiz 9323
  - Alpha 9326
  - BR40 4983
  - Brim 9322
  - Brock 1694
  - Buckshot-723 10457
  - Ciaric 9328
  - D87-4647 10475
  - Dimon 9329
  - Felix 9330
  - Haskell 9331

Glycine max *cont.*
- varieties *cont.*
  - He Feng-33 6122
  - IAC-PL1 4985
  - Itiquira 4983
  - JS80-21 4984
  - KG93 1695
  - Lambert 9324
  - Lilin Xiao Li-1 504
  - OAC Eclipse 10461
  - OAC Frontier 10462
  - OAC Shire 10460
  - OAC Talbot 10459
  - Pant Soybean-564 2852
  - Parker 9325
  - RCAT Angora 1696
  - RCAT Tabby 8143
  - Rhodes 9327
  - Thorne 10456
  - TN6-90 10458
  - Tu Liang-1 8880
  - Vernal 3940
  - VL Soya-2 12829

Glycine pindanica, taxonomy 8159

Glycine-rich proteins, *Medicago sativa,* gene expression 9288

Glycine soja
- altitude 11721
- backcrossing 12839
- genetic resources 7087, 8767, 10450, 11721
- genetic variation, isoenzymes 513
- genetics
  - leaves 9376
  - necroses 9376
  - superoxide dismutase 3946
- geography 11721
- growth period 512
- habit 12839
- interspecific hybridization 504, 3946, 12836, 12839
- isoenzymes 1704
- mutations
  - leaves 9376
  - necroses 9376
  - saponins 10486
- oils 11721
- photoperiodism 512
- polymorphism, isoenzymes 11698
- proteins 7087
- random amplified polymorphic DNA, variety classification 11698
- restriction fragment length polymorphism 508
  - variety classification 11698
- seeds 11721, 12839
- waterlogging 3950

Glycine tomentella
- gene expression
  - *Bradyrhizobium* 520
  - nodulation 520
  - *Rhizobium* 520
- interspecific hybridization 520, 3943
- isoenzymes 12837
- polyploidy 12837
- restriction fragment length polymorphism 12837

Glycinin
- *Glycine max*
  - gene expression 3942, 9337
  - genetic engineering 3942
- *Nicotiana tabacum*
  - gene expression 3942
  - genetic transformation 3942

Glycoalkaloids
- *Solanum,* tuberous species 1784
- *Solanum chacoense* 11819
- *Solanum tuberosum* 9465, 10586, 11819, 12934
  - genotype environment interaction 10587

Glycogen (starch) synthase
- *Solanum tuberosum*
  - gene expression 10585
  - genetic transformation 10585

Glycoproteins
- *Agrocybe aegerita,* gene expression 4495
- *Brassica campestris*
  - molecular genetics 9663
  - nucleotide sequences 9663

Glycoproteins *cont.*
- *Brassica napus*
  - rape
    - gene expression 4210
    - nucleotide sequences 4210
- *Brassica oleracea,* gene expression 3042
- *Daucus carota*
  - gene expression 4013
  - molecular genetics 4013
- *Nicotiana tabacum,* gene expression 12140
- *Oryza sativa*
  - gene expression 9200
  - genetic engineering 9200
- *Pinus caribaea* 13303
- *Solanum chacoense*
  - multiple alleles 11815
  - nucleotide sequences 11815
  - polymerase chain reaction 11815
- *Solanum tuberosum,* immunology 11814
- *Zea mays*
  - gene expression 9200
  - genetic transformation 9200

Glycosides
- *Antirrhinum majus* 11075
- *Arnica acaulis* 12293
- *Arnica montana* 12293
- *Digitalis subalpina* 12292
- *Dioscorea deltoidea* 5668
- *Lotus corniculatus* 1676
- *Lotus tenuis* 1676
- *Solanum* 3010
- *Solanum tuberosum* 3010
- *Sorghum bicolor* 4873
- *Ulmus* 5553

Glycosmis mauritiana, amides 12287

Glycosmis pentaphylla, amides 12287

Glycyrrhiza glabra
- cell culture 1043
- tissue culture 1043

Glycyrrhiza pallidiflora
- chemotaxonomy 8737
- flavonoids 8737

Glycyrrhiza **(×)** ***Abrus,*** protoplast fusion 12435

Glyphosate
- *Arachis hypogaea, in vitro* selection 9691
- *Pisum sativum, in vitro* selection 7120

Gmelina arborea, tissue culture 12199

Gnetales, evolution, mathematics 12457

Gnetum, molecular genetics, evolution 3561

Gnetum gnemon, pollination 5801

Godronia cassandrae, Vaccinium corymbosum 5271

Goodyera biflora, ovule culture 8713

Gossypium
- agglutinins 3328
- aneuploidy 6512
- *Aphis gossypii* 3331, 4340
- artificial selection
  - gossypol 9749
  - quality 9749
- *Bemisia tabaci* 9755
- breeding 10956
  - history 12158
- cell culture 8576
- chromosome aberrations
  - seedlings 10965
  - seeds 10965
- chromosome pairing 6512
- *Colletotrichum gossypii* 3329
- combining ability
  - quality 6509, 10977
  - yield components 4329
- drought resistance 9752
- *Empoasca* 2099
- evolution 10978
- experimental design 6509
- fatty acids 952, 7417
- fibres 9744
- flowering 9743
- fruits 3321
- *Fusarium* 951-952, 3328
- gene banks 939
- genetic engineering, insects 2348
- genetic resources 939, 12158
- genetic transformation, insects 5746
- genetic variance, quality 10977
- genetics, phenols 10955
- genotype environment interaction 6510
- germplasm releases 938

Gossypium *cont.*
gossypol 5506, 6520
height 2084
Helicoverpa armigera 2100
heritability
  quality 9745
  yield components 9745
heterosis, yield components 946
hybrid seed production 2083, 10967
hybrid varieties 2083
in vitro selection, salinity 2097
induced mutations
  seedlings 10965
  seeds 10965
interspecific hybridization 939, 3322, 10964
mutagens 10965
nitrogen ions 10965
Pectinophora gossypiella 953-954
photosynthesis 6521, 9752
plant hairs 5494
plant introduction 939, 12158
pollination 10967
protoplasts 8576
quality 4335-4336, 5507, 6520, 7416, 9743, 10955, 12160
salinity 7419, 10979
seed testing 8574
seeds 4321, 6520, 8574
soil pH 7419
stress 5509, 6521
tannins 5506
taxonomy 10978
transpiration 6521, 9752
variety trials 3315, 3564, 5484-5490, 6510, 12160
Verticillium 951
waxes 10976
weathering 8574
wilts 3328
yield correlations 3321, 4330
yields 12160
varieties
  Emian-17 10959
  Ermian-16 2079
  Ganmian-8 4318
  Lumian-12 9738
  Shaanxao-2786 2080
  Su Mian-6 12161
  Xiang Ming-11 10955
  Yumian-10 10961
  Zhongmian-18 941
***Gossypium anomalum*,** interspecific hybridization 6512
Gossypium arboreum
Amrasca biguttula biguttula, sowing date 10981
combining ability, yield components 2088-2089, 2091, 4327, 5501, 10973
gene banks 10957
genetic variance, yield components 2090-2091, 10974
harvest index 2085
heritability, yield components 6519, 10972, 10974
heterosis
  quality 4326
  yield components 4325-4326, 10973
interspecific hybridization 946, 4329, 6512, 6520, 7414, 12160
morphology 10957
multivariate analysis, yield components 5502, 6519
protoplasts 7414
Pythium ultimum 8579
Rhizoctonia solani 8579
stability, yield components 3325
taxonomy 5508
yield correlations 4328, 10971
yields 2085
***Gossypium areysianum*,** interspecific hybridization 7411
Gossypium barbadense
Amrasca devastans 4341
archaeology 13242
artificial selection, yield components 4317
chloroplast genetics 8573
combining ability, yield components 5499
Gossypium barbadense *cont.*
development 10968
Earias 4341
Fusarium oxysporum 13245-13246
genetic resources 13239
genetics, fruits 3320
heterosis, quality 9748
interspecific hybridization 946, 2084, 3318, 4330, 5499, 8573, 9748
photosynthesis 5496
plant introduction 13239
salinity 10979
temperature 10968
variety trials 3314
yield correlations 4317
***Gossypium bickii*,** interspecific hybridization 6520
Gossypium herbaceum
evolution, transposable elements 4320
gene banks 10957
heritability, yield components 5498
ideotypes 6514
interspecific hybridization 4329, 7414
morphology 10957
polymerase chain reaction 7408, 10657
protoplasts 7414
Pythium ultimum 8579
random amplified polymorphic DNA 10657
Rhizoctonia solani 8579
salinity 10979
variety classification 10657
Gossypium hirsutum
abscission 6516
Alternaria macrospora 8580
Amrasca biguttula biguttula, sowing date 10981
aneuploidy 7411
anther culture 5505
Anthonomus grandis 9753
antioxidants 9751
Aphis gossypii 9756-9757
artificial selection, quality 7418, 9746
Bemisia tabaci 7420-7421
breeders' rights 13238
breeding 7407, 10956, 12159
centres of diversity 949
chloroplast genetics 8573
chromosome addition 7411
chromosome pairing 7409
colour 13238
combining ability 12162
  germination 4322
  harvest index 3324
  quality 8575, 13241
  yield components 4331-4332, 5499, 5503, 6517, 8575, 13241
  yields 3324
composite varieties 4319
development 10968
DNA 2082, 7410
drought resistance 3326
ethyl methanesulfonate 9739
evolution 949
  transposable elements 4320
flowering 3326
fruits 10970
Fusarium 10960
Fusarium oxysporum 3327, 13245-13246
gamma radiation 9739
gene expression, *Bacillus thuringiensis* 3330
gene location 7409
genetic engineering
  Heliothis virescens 3317
  insects 6523
  quality 6523
genetic markers
  leaves 10954
  morphology 6513
  plant glands 10954
  quality 7415
  yield components 6513
genetic resources 13238-13239
genetic transformation
  Bacillus thuringiensis 3330
  Heliothis virescens 3317
genetic variance
  gossypol 2094
  oils 8577
  quality 2095, 9746
Gossypium hirsutum *cont.*
genetic variance *cont.*
  yield components 6517
genetic variation, isoenzymes 4338
genetics
  anthocyanins 3323
  colour 3323
  gossypol 2094
  herbicides 6524
  leaves 3323
  male sterility 3319
  plant hairs 2093
  prometryn 6524
  quality 2093
genotype environment interaction
  germination 13240
  seedlings 13240
germplasm releases 10954, 12159, 12162
  Anthonomus grandis 9758
  Helicoverpa zea 9758
  Heliothis virescens 9758
  herbicides 4323
  quality 9747
  roots 4323
  trifluralin 4323
gossypol 6520
growth period 4324, 5495
harvest index 2085
heat shock proteins 2098
Helicoverpa armigera 5510
heritability
  Heliothis virescens 6522
  quality 8575, 9746, 13241
  seeds 4322
  yield components 8575, 13241
heterosis
  growth period 2086
  harvest index 3324
  quality 9748
  yield components 2086, 5500
  yields 3324, 5493
ideotypes 6514, 10969
in vitro culture 4333
induced mutations 944, 9739
  fruits 10966
infrared radiation 10966
interspecific hybridization 943, 946, 2084, 3318, 4330, 5499, 6520, 7411, 8573, 9748, 10964, 12160
lasers 944, 10966
leaves 6515
Lygus lineolaris 9753
maternal effects, oils 8577
Meloidogyne incognita 3327
molecular genetics 2082
  chlorophyll *a/b* binding protein 942
mutagens 9739
mutations
  chlorophyll 7413
  quality 4337
nucleotide sequences, peroxidases 8572
nutrients 2096, 12163
outcrossing 7412
ovule culture 943
pathogens 12164
Pectinophora gossypiella 5511
photosynthesis 6515, 7413, 9741
plant composition 5495, 5511, 8580
plant hairs 5494
plant introduction 12164, 13239
pollination 10970
polymerase chain reaction 7408, 10657
potassium 12163
protoplasts 948, 4334
Pseudatomoscelis seriatus 9754
quality 940, 6520
random amplified polymorphic DNA 10657
salinity 9750-9751, 10980
seeds 6520
sexual reproduction 945
somaclonal variation
  chromosome aberrations 9740
  chromosome number 9740
stability 13243
storage, seeds 4322
sulfur 2096
taxonomy 4338
temperature 10968
tissue culture 2092, 9742, 10975, 10980
variety classification 10657

Gossypium hirsutum *cont.*
  variety trials 940, 3314, 5483, 5491-5492
  Verticillium 10960
  Verticillium dahliae 4339, 13244
  waxes 10976
  Xanthomonas campestris 8578
  yield correlations 947, 2087, 4330, 5497, 5504, 6518
  yields 2085
  varieties 3316
    CIANO Alamos-92 9735
    CIANO Cocorim-92 9736
    CIANO Tajimaroa-92 10958
    CICRHH.1 6511
    Jinmian-3 2081
    Jinmian-12 10960
    Kirti 6511
    MD51ne 10963
    Su-16 10962
    Sumian-6 9737
Gossypium klotzschianum
  interspecific hybridization 943
  ovule culture 943
Gossypium lanceolatum
  genetic variation, isoenzymes 4338
  taxonomy 4338
Gossypium laxum, polymerase chain reaction 7408
Gossypium raimondii
  evolution, transposable elements 4320
  interspecific hybridization 12160
Gossypium thurberi
  interspecific hybridization 943
  ovule culture 943
Gossypium tomentosum, molecular genetics, evolution 950
Gossypium turneri, interspecific hybridization 6512
Gossypol
  Gossypium 5506, 6520
    artificial selection 9749
  Gossypium hirsutum 6520
    genetic variance 2094
    genetics 2094
Gourds (*see* Cucurbitaceae)
Graft hybridization
  Citrus 1913
  Citrus reticulata 6326
  Citrus sinensis 6326
Grafting
  Actinidia deliciosa 7298
  Brassica campestris 8473
  Brassica oleracea 8473
  Picea abies 13315
  Prunus domestica 5247
  Pseudotsuga menziesii 9826
Grain legumes
  artificial selection, stress 8135
  biotechnology, nutritive value, reviews 4979
  breeding
    cold resistance 8136
    drought resistance 8136
  chymotrypsin inhibitors 4975
  convicine 4976
  diseases, reviews 8138
  drought resistance 6109
  gene expression
    Rhizobium 7071
    symbiosis 7071
  gene mapping 8132
  genetic engineering, nutritive value, reviews 4979
  genetic resources 2410
  genetic transformation, reviews 10448
  genetics
    Rhizobium 7071
    symbiosis 7071
  heritability, stress 8135
  hybrid seed production 1689
  hybrid varieties 1689
  molecular genetics 8207
  nitrogen fixation 8134
  nutritive value 4980
    reviews 4973, 4978
  oligosaccharides 7071
  polyphenols 4977
  protoplasts 499
  soil pH 8137
  soil toxicity 8137
  tannins 4976
Grain legumes *cont.*
  variety trials 5688
    reports 139
  vicine 4976
  varieties 4645
Grain shrivelling, triticale 4800, 8993
Gramineae
  chloroplast genetics, RNA polymerase 4912
  evolution 6715
    inflorescences 3899
Grammosolen dixonii, alkaloids 1050
Grammosolen* × *Cyphanthera, intergeneric hybridization 1050
Grammosolen* × *Duboisia, intergeneric hybridization 1050
Grapevine chrome mosaic nepovirus, *Nicotiana tabacum,* genetic transformation 5474
Grapevine fanleaf nepovirus
  Nicotiana benthamiana, genetic transformation 8566
  Vitis 3167
  Vitis rotundifolia 8430
  Vitis rupestris 3167
  Vitis vinifera 779, 3167, 8430
Grapevine leafroll associated closterovirus, *Vitis vinifera* 779
Grasses
  Acremonium 3386
  artificial selection, drought resistance, reviews 1625
  breeding 6057, 11621
    economics 10394
  chemotaxonomy 1647, 3901
  chloroplast genetics
    evolution 452, 11623
    taxonomy 8062, 11623
  cold resistance 2786-2787, 7022, 11289
  digestibility 4910, 10394
  evolution 1647
  fungicides 7018
  gene banks 2787, 4911
  genetic resources 6056-6057, 9186, 9954
    databases 9263
  habit 4933
  internodes 4933
  lawns and turf 5626
  Monographella nivalis 7022
  nitrogen 10394
  nutrients 10394
  prolamins 1647, 3901
  quintozene 7018
  restriction fragment length polymorphism
    evolution 11623
    taxonomy 8062, 11623
  salinity 453, 10393
  snow moulds 7018
  storage, seeds 4911
  taxonomy 1624
  Typhula ishikariensis 7022
  variety classification 2783, 5626
  variety trials 5688, 6058-6059
Gratiola officinalis, flavonoids 13385
Grazing
  Medicago falcata 10429
  Medicago sativa 10429
    artificial selection 6079
  Trifolium repens 1662
  Trifolium subterraneum 7054
Gremmeniella abietina
  Picea abies 4368
  Pinus contorta 4368
  Pinus nigra 4368
  Pinus sylvestris 4368
Grevillea
  taxonomy 9850
    books 2263
Grevillea banksii
  cyanogens 2168
  interspecific hybridization 2168
  stress 2168
Grevillea barklyana
  fruits 9843
  outcrossing 7503
  pollination 7503, 9843
Grevillea bipinnatifida
  cyanogens 2168
  interspecific hybridization 2168
  stress 2168
Grevillea robusta, provenance trials 9798
Grevillea scapigera, cryopreservation 9848
Grewia subinaequalis
  breeding 4192
  sexual reproduction 4192
Griselinia, taxonomy 7472
Groundnut rosette virus, *Arachis hypogaea* 4247
Growth (*see* Development)
Growth period
  Anacardium occidentale 6337
  Apium graveolens, induced mutations 6257
  Arabidopsis thaliana
    gene mapping 7649
    genetics 7649
    restriction fragment length polymorphism 7649
  Avena sativa 1377
  Brassica campestris 10842
  Brassica carinata, genetics 12041
  Brassica juncea
    combining ability 832
    genetics 12040
  Brassica napus, rape, genetics 12040-12041
  Brassica oleracea
    broccoli 4036
    cabbages 10639
  Cajanus cajan 1759
  Capsicum annuum, genetic variance 4079
  Carya illinoinensis 817
  Cicer arietinum 11771
  Citrus 6325
  Corchorus olitorius 10983
  Cucumis sativus 10710
  Cucurbita pepo 10704
  Cynara scolymus 11874
  Desmodium affine 7066
  Desmodium triarticulatum 7066
  Desmodium uncinatum 7066
  Eleusine coracana 6962
  Eustoma grandiflorum, heterosis 11065
  Gerbera hybrida, artificial selection 4427
  Glycine
    genetics 510
    heritability 510
  Glycine max 512, 6124, 6130, 9344-9345, 9348, 10478, 11703, 11706, 11709, 11712
    dominance 511
    genetics 11707
  Glycine soja 512
  Gossypium hirsutum 4324, 5495
    heterosis 2086
  Helianthus annuus 6358
  Helianthus tuberosus 4023, 7185-7186
  Hordeum vulgare 8958, 10174, 12598
    artificial selection 5920
    gene location 10173
    gene mapping 6823
    induced mutations 5904
    mutations 2610
    random amplified polymorphic DNA 6823
    restriction fragment length polymorphism 6823
    somaclonal variation 11385
  Ipomoea batatas 3026
  Juglans regia 8455
  Lens culinaris 11766
  Linum usitatissimum, linseed 1961
  Lupinus albus 1664
  Lupinus angustifolius 1664
  Lupinus luteus 1664
  Lycopersicon esculentum 13004
    artificial selection 1837
    heritability 3060
  Malus pumila 8384, 11947
  Matthiola incana
    genetics 8682-8683
    linkage 8682
  Medicago scutellata 3916
  Musa, induced mutations 6319
  Nicotiana tabacum, nucleocytoplasmic interaction 5455
  Oryza australiensis
    gene mapping 8057
    restriction fragment length polymorphism 8057
  Oryza sativa 2774, 3820, 6981, 8025, 12735

Growth period *cont.*
  Oryza sativa cont.
    combining ability 9221
    gene mapping 8057
    genetics 414-415, 3829, 11580
    heterosis 9221, 11580
    induced mutations 414
    restriction fragment length polymorphism 8057
    somaclonal variation 427
  Pennisetum glaucum 1506
    combining ability 6002
  Persea americana 1919, 13108
  Phaseolus vulgaris 5028
    diallel analysis 4622
  Picea abies 2143, 5595
  Pisum sativum 10513-10514
  Polemonium viscosum 8684
  Populus balsamifera
    clonal variation 2118
    heritability 2118
  Prunus, cherries 5254
  Prunus avium 5253
  Prunus cerasus 5253
  Prunus domestica 744
  Prunus persica 756, 5259, 10756, 11977
    induced mutations 8408
  Pyrus pyrifolia, heritability 739, 9582
  Rosa 11049
  Ruella macrantha 1069
  Saccharum officinarum 2010
  Sesamum indicum 13173
  Sesbania goetzei 10445
  Sesbania keniensis 10445
  Sesbania rostrata, induced mutations 491, 1681
  Sesbania sesban 10445
  Setaria italica, genotype environment interaction 369
  Solanum tuberosum 8249, 11831
  Sorghum bicolor
    artificial selection 7979
    combining ability 3773
  Trifolium subterraneum 8111
  Triticum aestivum 217, 245, 2498, 3617, 4669, 4673, 4690, 8911, 10090, 10095, 11328, 12504
    artificial selection 11331
    germplasm releases 10068
    heritability 11331
    induced mutations 12485
  Triticum durum 2498
  Vicia ervilia 9306
  Vicia faba 1717, 5003
    artificial selection 12869
    induced mutations 6148
  Vicia sativa 9306
  Vicia villosa 9306
  Vigna angularis, genetic variance 6222
  Vigna mungo 5077
  Vigna unguiculata 9432
    induced mutations 7141
  Zea mays 1392, 4830, 5972, 6877, 11423
    artificial selection 3748, 10269
    gene location 5969
    genetic variance 11452
    germplasm releases 9105
    restriction fragment length polymorphism 5969
    sweetcorn 9108
Growth regulators 7585
  Allium cepa 9505, 9509
  Arabidopsis thaliana
    gene expression 3502, 3512, 6678, 7647
    genetics 69
    induced mutations 7651
    molecular genetics 76, 3512, 7647
    mutations 69, 76, 144, 146, 3519, 5784, 6678, 7657
  Avena sativa, gene expression 155
  Beta vulgaris, sugarbeet, genetic variance 897
  Brassica 836
  Brassica napus, rape 833, 4207
  Brassica oleracea, cabbages 4207
  Bromus secalinus
    gene location 12520
    molecular genetics 12520
  Citrus maxima 1914
  conifers 148
Growth regulators *cont.*
  crops 9960
  Dactylis glomerata 3872
  Daucus carota, genetic transformation 150
  Dianthus caryophyllus 5639
    gene expression 4425
    molecular genetics 4425
  gene expression 10040, 12381
  genetic transformation 4568, 12381
  genetics 38
  Glycine max
    gene expression 506, 6128, 8153-8154
    genetic engineering 6128
  Hevea brasiliensis 9764
  Hordeum vulgare 2611, 6828
    gene expression 155, 267-268
    genetic transformation 3495
    genetics 5915
  Lactuca sativa 654
  Lycopersicon esculentum 10030
    gene expression 671, 8154, 10660
    mutations 146, 10660
  Malus pumila 4124
  molecular genetics 1134, 3484
  Nicotiana glauca, gene expression 12154
  Nicotiana langsdorffii, gene expression 12154
  Nicotiana tabacum 4207
    gene expression 909-910, 914, 928, 2054, 6128
    genetic transformation 910, 914, 928, 3495, 6128, 7401
  Oryza sativa 421, 1554, 2741, 3818, 4892, 8024, 9960
    genetics 3827, 3832
    mutations 3834
  Pennisetum glaucum 374, 9960
  Phaseolus vulgaris 5025, 7098, 7101
  Picea abies 5596
  Picea mariana 7489
  Pinus banksiana 8633
  Pinus radiata 148
  Pisum sativum 10519
    cell division 8191
    embryo culture 8191
    gene expression 5045
    mutations 549, 6178, 6184, 8193
  Prunus persica
    embryo culture 8411
    ovule culture 8411
  Raphanus sativus
    genetics 3032
    penetrance 3032
  Rubus 10764
  Salix viminalis 2121
  Secale cereale 295
    mutations 5939
  Thuja occidentalis, tissue culture 8656
  Trifolium pratense, mutations 8110
  triticale 4805-4806
  Triticum aestivum 3618, 5886, 8898, 9960, 11322, 11345, 12507, 12514, 12521
    combining ability 11346
    gene expression 155, 3593
    gene location 12520
    genetics 207
    molecular genetics 12520
    mutations 144, 12523
    pleiotropy 12527
  Zea mays 9058, 9960
    gene expression 324, 5974
    genetics 9098
    heterosis 148
    molecular genetics 7897
    mutations 144, 146, 1422, 5974
    pleiotropy 5974
GTP-binding proteins
  Arabidopsis thaliana
    gene expression 3508, 3526
    nucleotide sequences 3526
  Glycine max, nucleotide sequences 11699
  Pisum sativum
    gene expression 7107, 10517
    nucleotide sequences 7107, 10517
  Vicia faba, nucleotide sequences 9381
Guarea michel-moddei, taxonomy 7464
Guizotia abyssinica
  anther culture 3253
Guizotia abyssinica *cont.*
  Apis 10894
  artificial selection, yield components 4269
  chromosome pairing 6432
  embryo culture 1997
  genomes 6432
  heritability, yield components 10895
  interspecific hybridization 6432
  mycoplasma-like organisms 874
  tissue culture 874
  variety trials 1996
  yield correlations 10896
Guizotia scabra
  chromosome pairing 6432
  genomes 6432
  interspecific hybridization 6432
Guizotia schimperi
  chromosome pairing 6432
  genomes 6432
  interspecific hybridization 6432
Gymnocalycium
  seeds 8729
  taxonomy 8729
Gymnosperms, molecular genetics, evolution 3561
Gynerium sagittatum, taxonomy 10410
Gynoecium 6703
  Averrhoa carambola 12021
  Banksia menziesii 7502
  Camellia 11040
  Capsicum 4089
  Coffea 6467
  Eucalyptus calophylla 9783
  gene expression 2385
  Lobelia cardinalis 12252
  Lythrum 13357
  Mimulus guttatus 1011
  Nicotiana tabacum, molecular genetics 2066
  Oenothera erythrosepala, mutations 12255
  Oenothera hookeri, mutations 12255
  Oryza sativa 9219
    genetics 406
    mutations 406
  Petunia hybrida 9882
  Prunus 741
  Prunus armeniaca 9583
  Rosa setigera 13347
  Solanum tuberosum, immunology 11814
  Triticum aestivum, gene location 203
  Zea mays, mutations 9073
Gypsophila
  embryo culture 9868
  ovule culture 9868
Gypsophila manginii, interspecific hybridization 9868
Gypsophila paniculata, interspecific hybridization 9868
Habenaria, taxonomy 6594
Habenaria phantasma, taxonomy 6593
Habenaria praetermissa, taxonomy 6593
Habit
  Arachis hypogaea 1983, 1985, 4252, 7363, 13163
    genetics 3238
  Bouteloua curtipendula 4933
  Buddleja, genetics 992
  Eragrostis 4933
  Eucalyptus diversicolor, heritability 9776
  Glycine gracilis 12839
  Glycine max 12839, 12848
  Glycine soja 12839
  grasses 4933
  Hordeum vulgare 5912
    gene location 10173
  Juglans regia 5336
  Lactuca sativa 1069
  Larix laricina, heritability 9824
  Lens culinaris
    genetics 563
    induced mutations 563
  Lupinus albus 10440, 11683
  Malus pumila 5230
    genetics 10714
    mutations 733
  Oryza rufipogon 383
  Oryza sativa 1555
    genetic variance 10370
    genetics 1548, 1559

Habit *cont.*
  Oryza sativa cont.
    heritability 10370
  Panicum coloratum 4933
  Pelargonium, genetic transformation 6563
  Phaseolus vulgaris 2891, 6161
    artificial selection 5017
    mathematics 5027
  Picea abies, mathematics 4373
  Pinus aristata 5587
  Pinus sylvestris, genetics 13297
  Pisum sativum 12892
    genetics 10519
    induced mutations 10519
  Populus
    artificial selection 13272
    heritability 12188
  Prunus persica 10760, 11979
    genetics 8410, 10714
  Rubus, blackberries 7283
  Sesamum indicum 10892
  Solanum melongena
    combining ability 690
    genetics 690
    heterosis 690
  Trifolium repens
    genetics 9298
    germplasm releases 9298
  Triticum aestivum 6752, 8890
    artificial selection 7765
  Triticum durum 6752
    genetics 7766
  Vigna unguiculata 6215
Haemanthus pauculifolius, taxonomy 2206
Haemoglobin
  Hordeum vulgare
    gene expression 8952
    nucleotide sequences 8952
Hairs (*see* Plant hairs)
Haploclathra cordata, taxonomy 7461
Haploidy 5812
  Aegilops × *Triticum*
    chromosome translocation 2473
    nucleocytoplasmic interaction 1284, 2473
  Agrocybe aegerita 4495
  Allium cepa 4027
  Beta vulgaris, sugarbeet 7380, 12115, 13190
  Brassica juncea 12044
  Brassica napus, rape 5348, 5360, 6341, 9666, 10839, 12038
  Brassica oleracea, cauliflowers 3043
  Capsicum annuum 698
  Citrus 13096
  Coffea canephora 10918
  Cucumis melo 4105, 5208
  Cucumis sativus 10706
  Daucus carota 10615
  evolution 4630
  Fagopyrum esculentum 6054
  genetic variance 12433
  Hordeum bulbosum 276, 10177
  Hordeum marinum 10177
  Hordeum murinum 10177, 12597
  Hordeum vulgare 276-277, 2429, 2595, 2597, 4757, 7710, 10191, 12463, 12595, 12599, 12612
    random amplified polymorphic DNA 3674
    restriction fragment length polymorphism 3674
  Hordeum × *Triticum* 3578, 5881, 8887
  Larix decidua 2148, 5603, 8650
  Larix eurolepis 2148
  Larix leptolepis 2148
  linkage 12433
  Linum usitatissimum, linseed 3215
  Lolium perenne 2785
  Nicotiana knightiana, nucleocytoplasmic interaction 13216
  Nicotiana raimondii, nucleocytoplasmic interaction 13216
  Nicotiana tabacum 6482, 8563, 9732, 13217
    nucleocytoplasmic interaction 13216
  Oryza sativa 1576, 6969, 11285, 11594, 12732
  Petunia, somaclonal variation 4438
  Picea sitchensis 2145
Haploidy *cont.*
  Populus xiaohei 2119
  Pyrus communis 8393
  reviews 111
  Rosa hybrida, mutations 13346
  Secale cereale, maternal effects 7870
  Solanum, tuberous species 2964
  Solanum melongena 686, 688
  Solanum phureja 2962, 5092, 8239
  Solanum tuberosum 1775, 2957-2962, 2964, 5092-5094, 8237, 8239, 8244, 9458, 10581, 11812, 12463
  Tripsacum × *Triticum* 3607
  triticale × *Triticum* 5941
  Triticum 7744
  Triticum aestivum 196, 1310, 2429, 2469-2471, 3577, 3607, 3610, 4687, 4690, 5879-5881, 7710, 7740, 8897, 8906, 10086-10087, 11337, 12494, 12501, 12512, 12533
    Gibberella zeae 4733
    nucleocytoplasmic interaction 1284, 2468
  Triticum durum 3600
    chromosome translocation 2473
    nucleocytoplasmic interaction 2473
  Triticum monococcum 2471
  Triticum × *Zea* 3600, 3610, 7740, 7744
  Vitis vinifera 1069
  Zea mays 1310, 1414, 3577, 3725, 4823, 9068
    restriction fragment length polymorphism 7907
Haplopappus gracilis
  cadmium 1010
  tissue culture 1010
  toxic substances 1010
Hard seeds
  Abelmoschus esculentus 1883
  Glycine max 10475, 12846
  Sorghum bicolor 6939
  Trifolium subterraneum 3924, 8111
  Vicia faba 5002
  Vigna 6218
  Vigna radiata 6218
Harrisia
  seeds 8729
  taxonomy 8729
Harvest index
  Arachis hypogaea 7361
  Brassica napus, rape 831
  Eleusine coracana 381
  Glycine max, heterosis 1702
  Gossypium arboreum 2085
  Gossypium hirsutum 2085
    combining ability 3324
    heterosis 3324
  Lupinus albus 1664
  Lupinus angustifolius 1664
  Lupinus luteus 1664
  Oryza sativa, genetic variance 1948
  Pisum sativum 7110
  Triticum aestivum 5885
    heterosis 2459
  Vigna mungo, heritability 10555
  Vigna radiata, combining ability 10556
Harvesting (*see also* Mechanical harvesting)
  Arachis hypogaea 860
  Citrus 13101
  Glycine max 11709
  Malus pumila 11948
  Manihot esculenta 9482
  Phaseolus vulgaris 10508
  Saccharum officinarum 2010
  Solanum tuberosum 11831
Havardia, chromosome number 9799
Haworthia, tissue culture 7535
Haworthia tenuifolia, taxonomy 1024
Heat
  Lycopersicon peruvianum, nucleotide sequences 5173
  Phaseolus vulgaris 10509
  Solanum tuberosum 10588
  Triticum aestivum, genetics 12510
Heat resistance
  Aegilops squarrosa 7791
  Agaricus bitorquis 4510
  Arachis hypogaea 866
  Brassica, Chinese cabbages 6253
  Brassica oleracea, broccoli 4036
  Cicer arietinum 6110
Heat resistance *cont.*
  Cucumis sativus 8374
  Helianthus annuus 7355
  Hordeum vulgare 164, 4773
  Ilex 5622
  Ilex cornuta 5622
  Lens culinaris 6110
  Lolium perenne, gene expression 9254
  molecular genetics 12372
  Nicotiana tabacum 2063
  Phaseolus acutifolius 7102
  Phaseolus vulgaris 7101-7102
  Pisum sativum 6110
  Solanum tuberosum 5107, 10591
    genetics 8267
  Triticum 7791
  Triticum aestivum 164, 211, 2517, 11351
  Triticum dicoccum 211
  Triticum durum 164, 211
  Vicia faba 6110
  Vigna unguiculata 8220
  Zea mays
    artificial selection 6900
    in vitro selection 1464
Heat shock
  Arachis hypogaea, gene expression 12466
  Cucurbita pepo
    chloroplast genetics 5212
    gene expression 5212
  gene mapping, reviews 2305
  Glycine max
    gene expression 5767, 12466
    genetic engineering 5767
  Hordeum vulgare 6825, 10165-10166
  Nicotiana plumbaginifolia
    gene expression 10939
    genetic transformation 10939
  Nicotiana tabacum
    gene expression 5767
    genetic transformation 5767
  Papaver somniferum 1052
  restriction fragment length polymorphism, reviews 2305
  Saccharum officinarum 12107
  Sorghum bicolor, gene expression 12466
  Triticum aestivum, gene expression 11355
  Zea mays, gene expression 12466
Heat shock proteins
  Arabidopsis thaliana 11225
    gene expression 7655, 8813, 11224
    genetic engineering 8813
    genetic transformation 7655
    nucleotide sequences 11224
  Catharanthus roseus
    gene expression 2219
    nucleotide sequences 2219
  Chenopodium rubrum, gene expression 10391
  crops, molecular genetics 6646
  Cucumis sativus
    gene expression 11927
    molecular genetics 11927
    nucleotide sequences 11927
  Gossypium hirsutum 2098
  Helianthus annuus
    gene expression 4237, 12057
    nucleotide sequences 12057
  Hordeum vulgare
    gene expression 271
    nucleotide sequences 6841
  Lolium perenne, gene expression 9254
  Lycopersicon peruvianum, molecular genetics 10674
  molecular genetics 12372
  Nicotiana tabacum, gene expression 928
  Oryza sativa 8039
    gene expression 9233, 12757
    molecular genetics 9233
    nucleotide sequences 12757
  Pisum sativum, molecular genetics 6193
  Secale cereale, gene expression 11413
  Spinacia oleracea
    gene expression 645, 11869
    molecular genetics 645
    nucleotide sequences 8309, 11868
  triticale, gene expression 11413
  Triticum aestivum
    gene expression 2457, 11413
    molecular genetics 2457

- **Heat shock proteins** *cont.*
  - *Triticum aestivum cont.*
    - nucleotide sequences 4679
  - *Zea mays*
    - gene expression 7951, 9019-9021
    - molecular genetics 9019, 9021
    - nucleotide sequences 7951
- **Heat sums**
  - *Cucurbita pepo* 10704
  - *Helianthus annuus* 5388
  - *Lablab purpureus* 496
  - *Lupinus albus* 1664
  - *Lupinus angustifolius* 1664
  - *Lupinus luteus* 1664
  - *Phaseolus vulgaris* 496
  - *Pisum sativum* 496
  - *Sorghum bicolor* 1482
  - *Vigna angularis* 496
  - *Vigna radiata* 496
- **Heavy metals** 12370
  - *Arabidopsis thaliana*
    - gene expression 10028
    - nucleotide sequences 10028
  - *Avena sativa* 11402
- ***Hebe***
  - evolution 8661
  - nomenclature 12238
  - taxonomy 11045
- ***Hebe adamsii,*** nomenclature 13341
- ***Hebe andersonii***
  - breeding 9841
  - hybrid varieties 9841
- ***Hebe franciscana***
  - breeding 9840
  - hybrid varieties 9840
- ***Hebe murrellii,*** nomenclature 13341
- ***Hedysarum coronarium***
  - seed testing 2782
  - variety classification 2782
  - variety trials 2782
- **Height**
  - *Apium graveolens,* induced mutations 6258
  - *Arabidopsis thaliana,* mutations 12417
  - *Avena sativa,* induced mutations 5933
  - *Capsicum annuum*
    - genetics 5199
    - nucleocytoplasmic interaction 5199
  - *Capsicum chinense*
    - genetics 5199
    - nucleocytoplasmic interaction 5199
  - *Cocos nucifera* 10872
  - *Corchorus olitorius,* induced mutations 6526
  - *Elaeis guineensis,* history 4239
  - *Eucalyptus diversicolor,* heritability 9776
  - *Fagus sylvatica,* heterozygosity 9786
  - *Foeniculum vulgare* 7554
  - *Glycine max* 1700, 10478, 12848
  - *Gossypium* 2084
  - *Helianthus annuus* 7341, 7348
  - *Helianthus tuberosus* 4023
  - *Hordeum vulgare*
    - gene mapping 6823
    - genetics 1358, 2609
    - mutations 1358, 2609, 2611
    - random amplified polymorphic DNA 6823
    - restriction fragment length polymorphism 6823
    - somaclonal variation 11385
  - *Humulus lupulus* 12303
  - *Larix laricina,* heritability 9824
  - *Lens culinaris*
    - genetics 563
    - induced mutations 563
  - *Linum usitatissimum*
    - flax
      - genetic variance 7424
      - induced mutations 7425
  - *Malus pumila* 5229
  - *Nicotiana rustica,* genetic variance 3284
  - *Nicotiana tabacum,* nucleocytoplasmic interaction 5455
  - *Oryza sativa* 421, 1595-1596, 2755, 3849
    - gene expression 12739
    - gene location 11584
    - genetic markers 12740
    - genetics 413, 419, 1551, 1556, 2748, 3827, 3830, 3832, 9217, 11578, 11584
- **Height** *cont.*
  - *Oryza sativa cont.*
    - induced mutations 1551
    - linkage 417, 1551, 1556, 2748, 3830
    - multiple alleles 11584
    - mutations 2747, 3834
    - restriction fragment length polymorphism 417, 12740
    - somaclonal variation 2747
  - *Pennisetum glaucum*
    - genetic variance 10326
    - genetics 11537
  - *Phaseolus vulgaris* 5025, 7098
  - *Picea abies,* mathematics 4372
  - *Picea glauca,* heritability 4374
  - *Pinus sylvestris,* maternal effects 13298
  - *Pisum sativum* 550, 1736
    - mutations 6184-6185, 7112, 11758
  - *Populus balsamifera*
    - clonal variation 2118
    - heritability 2118
  - *Prunus,* cherries 9584
  - *Prunus persica* 11976
    - genetics 8410
  - *Ruella macrantha* 1069
  - *Rumex acetosella* 5165
  - *Santalum album,* somaclonal variation 1060
  - *Secale cereale*
    - epistasis 8982
    - genetics 2653, 11411
    - induced mutations 2653
    - mutations 5939
  - *Setaria italica,* genotype environment interaction 369
  - *Solanum melongena*
    - combining ability 690
    - genetics 690
    - heterosis 690
  - *Triticum aestivum* 1262, 1303, 3616, 4690, 8915, 10095, 12504, 12521
    - aneuploidy 5875
    - backcrossing 212
    - gene location 10099
    - genetics 207, 1292, 2487, 2490, 3618, 4703, 5874-5875, 8898, 8900-8901, 10101, 11323, 12507, 12530, 12532
    - germplasm releases 12506
    - heritability 3650
    - nucleocytoplasmic interaction 10099
    - pleiotropy 1291, 8901, 10101, 12527, 12530, 12533
  - *Triticum durum* 136
  - *Triticum monococcum,* induced mutations 3620
  - *Tsuga heterophylla*
    - clonal variation 9829
    - heritability 9829
  - *Vicia faba,* induced mutations 136
  - *Zea mays* 305, 9113
    - artificial selection 9109
    - gene location 5969, 10259
    - gene mapping 10260-10261
    - genetic markers 9037
    - genetic variance 11452
    - genetics 9095, 9098, 10258, 12675
    - linkage 7936
    - multiple alleles 9037
    - mutations 10260-10261, 12675
    - pleiotropy 9095
    - restriction fragment length polymorphism 5969, 7936, 10259
- **Helianthinin**
  - *Helianthus,* polymorphism 7342
  - *Helianthus annuus,* genetic engineering 10856
  - *Nicotiana tabacum*
    - gene expression 10856
    - genetic transformation 10856
- ***Helianthus***
  - amino acids 7347
  - genetic resources 6356, 7347
  - germination 7338
  - germplasm releases 4231
  - *Homoeosoma electellum* 7354
  - *Homoeosoma nebulella* 7354
  - melanins 7354
  - polymorphism, helianthinin 7342
  - proteins 7347
- ***Helianthus annuus***
  - abnormal development 7343
  - *Alternaria helianthi* 9681
  - anther culture 4235, 5342
  - *Apis* 7336
  - artificial selection
    - seedlings 7333
    - seeds 1964
  - biotechnology, reviews 3218
  - *Botrytis cinerea* 7353
  - breeding 1962-1963
    - reviews 10855
  - chloroplast genetics 4230
    - transfer RNA 12058
  - chromosome pairing 11854
  - combining ability
    - oils 7344
    - yield components 1966-1967, 4234, 5387, 6359-6360, 8497, 10862
    - yields 7344
  - *Contarinia schulzi* 9682
  - crop density 5390-5391, 7341, 7348, 10863
  - cytoplasmic male sterility 9681, 10857, 12060
  - development 5386, 5388
  - drought resistance 7339, 7352, 7355
  - embryo culture 1241, 5342
  - ethephon 5385
  - fatty acids 5342, 5389
  - gametocides 5385
  - gamma radiation 846
  - gene expression
    - anthers 10859
    - cytoplasmic male sterility 4233, 10859
    - flowers 3217
    - heat shock proteins 4237, 12057
    - injuries 8498
    - meiosis 10859
    - plant embryos 12057
    - stress 4237
  - genetic engineering
    - helianthinin 10856
    - proteins 8133
  - genetic resources 6356
  - genetic transformation 5384
    - histones 7737
  - genetic variance
    - leaves 7340
    - yield components 1966, 6359, 9680
  - genetic variation, isoenzymes 1965
  - genetics
    - leaves 7340
    - *Orobanche cumana* 9683
    - pollen 4232
    - tocopherols 7346
  - genotype environment interaction, yield components 10861
  - germination 7350
  - germplasm releases 9678
    - birds 12062
  - gibberellic acid 5385
  - growth period 6358
  - heat resistance 7355
  - heat sums 5388
  - height 7341, 7348
  - heritability
    - leaves 7340
    - yield components 6359
  - heterosis
    - drought resistance 6363
    - oils 3219
    - photosynthesis 6363
    - quality 3219
    - stomata 6363
    - yield components 1968, 4234, 8497
  - hybrid seed production 1231
  - hybrid varieties 7355
  - induced mutations 846
  - inflorescences 7343
  - interspecific hybridization 4231, 5342, 5384, 6361, 7335, 7342, 11854
  - linoleic acid 5386
  - lodging 5391
  - *Macrophomina phaseolina* 2418
  - male sterility 1963, 5385
  - mitochondrial genetics 4230
    - anthers 10859
    - cytoplasmic male sterility 4233, 10858-10859, 12059

Helianthus annuus *cont.*
- mitochondrial genetics *cont.*
  - meiosis 10859
  - transfer RNA 12058
- molecular genetics 6357
  - flowers 3217
- mutations
  - chlorophyll 8496, 10864
  - dormancy 8496
  - salinity 10864
- nucleotide sequences 4230
  - anthers 13143
  - heat shock proteins 12057
  - plant embryos 12057
  - transfer RNA 12058
- oils 847, 4236, 5383, 5386, 5388, 7348
- oleic acid 5386, 6362
- *Orobanche cumana* 7355
- photosynthesis 7339
- *Plasmopara halstedii* 8499-8500, 10866
- pollination 7336
- polymerase chain reaction, transfer RNA 12058
- polymorphism, isoenzymes 8497
- protoplasts 845, 1970, 13144
- *Puccinia helianthi* 3220
- random amplified polymorphic DNA 11184
- regenerative ability 1240
- restriction fragment length polymorphism, cytoplasmic male sterility 12059
- salinity 7350-7351
- *Sclerotinia sclerotiorum* 848, 3189, 10865, 13145
- seedlings 7350
- somaclonal variation 846
- sowing date 5390-5391, 7349
- *Spilarctia obliqua* 849
- tissue culture 1240, 1969, 6361, 7345, 7350, 12061, 13144
- variety trials 139, 7334, 7348, 8494-8495, 12056
- water balance 7337, 7339
- yield components 5383, 5390-5391, 6362
- yield correlations 5386, 10860
- varieties 4646, 9679

Helianthus argophyllus
- drought resistance 7352
- interspecific hybridization 6361
- tissue culture 6361

Helianthus neglectus, chloroplast genetics, evolution 6718

Helianthus petiolaris
- *Apis* 7336
- chloroplast genetics, evolution 6718
- mitochondrial genetics, cytoplasmic male sterility 10858
- pollination 7336

Helianthus rigidus, interspecific hybridization 7342

Helianthus tuberosus
- chromosome pairing 11854
- energy resources 5137
- genetic resources 7184
- genetic transformation 5384
- growth period 4023, 7185-7186
- height 4023
- interspecific hybridization 4231, 5384, 11854
- inulin 11855
- multivariate analysis, morphology 7184
- nitrogen 7187
- photosynthesis 7187
- plant introduction 7184
- proteins 5137
- shade 4023
- soil types 12964
- source sink relations 7187
- variety trials 12964

Helianthus* (×) *Cichorium, protoplast fusion 5161

Helicoverpa armigera
- *Allium cepa* 11862
- *Arachis hypogaea* 3251
- *Cajanus cajan* 579, 9426, 10548
- *Cicer arietinum,* heterosis 575
- *Gossypium* 2100
- *Gossypium hirsutum* 5510
- *Lycopersicon esculentum* 9555, 10687
  - genetic transformation 683

Helicoverpa armigera *cont.*
- *Lycopersicon hirsutum* 9555
- *Sorghum bicolor* 6953

Helicoverpa zea
- *Gossypium hirsutum,* germplasm releases 9758
- *Lycopersicon pennellii* 9554
- *Zea mays* 2700, 9164, 12685
  - popcorn 2701

Helictotrichon
- chromosome morphology 2810
- taxonomy 9274

Heliohebe, taxonomy 11045

Heliothis (*see also Helicoverpa)*

Heliothis virescens
- *Gossypium hirsutum*
  - genetic engineering 3317
  - genetic transformation 3317
  - germplasm releases 9758
  - heritability 6522
- *Lycopersicon esculentum* 9555
- *Lycopersicon hirsutum* 9555
- *Nicotiana tabacum* 2078
  - genetic transformation 5481

Hellula undalis, *Brassica oleracea,* cabbages 10639

Helminthosporium (*see also Cochliobolus; Glomerella; Magnaporthe; Pyrenophora; Setosphaeria)*
- *Aegilops* 6776
- *Triticum* 6776
- *Triticum aestivum* 3653

Helminthosporium solani, *Solanum tuberosum* 9476

Hemarthria altissima, variety trials 8086

Hemerocallis hongdoensis, taxonomy 11083

Hemicellulose, *Prunus persica* 8409

Hemileia vastatrix
- *Coffea* 3275, 5442, 10923
  - genetics 7385
- *Coffea arabica* 905, 9713
  - genetics 7385, 8536
- *Paracoffea* 5442

Henrardia, taxonomy 7039

Hepatica nobilis, accessory chromosomes 5663

Herbage crops
- cold resistance 11620
- crop mixtures 1070
- genotype mixtures 1070
- variety trials, reports 139

Herbicides
- *Amaranthus* 12053
- *Arabidopsis thaliana*
  - mutations 5789, 7656
  - recombination 7656
- *Avena fatua* 2647, 7868
- *Avena sativa* 12581
- *Avena sterilis* 2647
- *Beta vulgaris,* sugarbeet 8531
- *Brassica adpressa* 7324
- *Brassica napus*
  - rape 7324, 12053
    - genetic transformation 841, 5380, 6354
    - *in vitro* selection 4226
    - mutations 3213, 4226
- *Brassica oleracea*
  - cabbages 7324
  - kale 7324
- *Capsicum annuum*
  - genetics 4102
  - modifiers 4102
- cereals 4664
- *Chenopodium* 12053
- crops 7595-7596
  - genetic engineering 1119, 12376
  - molecular genetics 9962
  - reviews 11172
- *Cucumis sativus* 1862
- *Daucus carota*
  - gene expression 9973
  - genetic transformation 9973
  - *in vitro* selection 12948
- *Echinochloa colonum* 7989
- *Eleusine indica* 12703
- *Elymus repens* 3890, 8082
- genetic engineering 6667, 7594, 12375
- genetic transformation 8561
- *Glycine max* 2877
  - germplasm releases 10449

Herbicides *cont.*
- *Gossypium hirsutum*
  - genetics 6524
  - germplasm releases 4323
- *Hordeum murinum,* genetics 5928
- *in vitro* selection 5747
- *Kochia scoparia* 2784, 3869, 8060-8061
- *Lolium multiflorum* 8070, 12791
- *Lolium rigidum* 458, 2796, 8071-8072
  - gene expression 1629
- *Lycopersicon esculentum* 3069
  - *in vitro* selection 3080
- *Medicago sativa*
  - gene expression 9973
  - genetic transformation 9973
- *Nicotiana tabacum*
  - gene expression 4315, 9973, 13237
  - genetic transformation 4315, 6508, 7405, 8785, 9973, 13237
  - *in vitro* selection 4316
- *Phalaris minor* 9279
- *Pisum sativum* 458
  - *in vitro* selection 7120
- *Setaria viridis* 2719-2720
- *Solanum tuberosum* 12581, 12938
  - genetics 2956
  - mutations 4012
- *Sorghum bicolor* 7981
- triticale 3666
- *Triticum aestivum* 3666, 7820-7821, 12581
  - genetic transformation 264-265, 4681, 5899
- *Triticum durum* 3666
- *Vigna unguiculata* 8223
- *Zea mays* 352, 3771, 7971-7972, 9168
  - genetic transformation 5991, 9167
  - genetics 1470
  - *in vitro* selection 1470, 5991, 12686-12687

Heritability
- *Abelmoschus esculentus,* yield components 6291
- *Abies homolepis,* yield components 9822
- *Agrostis stolonifera,* drought resistance 3906
- *Arachis hypogaea*
  - *Mycosphaerella berkeleyi* 4263
  - *Sclerotinia minor* 3244
  - *Thielaviopsis basicola* 1991
  - yield components 861, 4257, 9690, 10878
- *Asparagus officinalis, Puccinia asparagi* 5160
- *Avena sativa,* yield components 8973
- *Brassica campestris,* sarson, yield components 835
- *Brassica juncea*
  - *Alternaria* 3207
  - seedlings 8481
- *Brassica oleracea,* kale, *Plasmodiophora brassicae* 9519
- *Cajanus cajan,* yield components 2934, 9425
- *Capsicum annuum,* yield components 7237
- *Carthamus tinctorius,* yield components 4238, 10870
- *Carya illinoinensis,* yield components 10831
- *Cassia angustifolia,* yield components 1041
- *Chamaecrista fasciculata*
  - development 2189
  - size 2189
- *Cicer arietinum,* yield components 2924
- *Citrullus lanatus,* yield components 10700
- *Clarkia amoena*
  - flowers 12243
  - stems 12243
- *Cocos nucifera,* seedlings 6393
- *Coffea arabica, Glomerella cingulata* 10922
- *Coffea canephora,* yield components 10919
- *Crocus sativus,* yield components 11106
- *Crossandra infundibuliformis,* yield components 7504
- *Cucumis melo, Pseudoperonospora cubensis* 13029

Heritability *cont.*
  Cucumis sativus, yield components 11936
  Curcuma longa, yield components 6609
  Dactylis glomerata
    cold resistance 1626
    Monographella nivalis 1626, 7021-7022
    nitrogen 4915
    nutrients 4915
    Typhula ishikariensis 1626, 7021-7022
  Dendranthema morifolium 11067
    yield components 6569
  Diospyros kaki, yield components 8452
  Elymus hispidus
    digestibility 9261
    quality 9261
  Eragrostis tef, yield components 9272
  Eucalyptus camaldulensis, yield components 5526
  Eucalyptus diversicolor
    habit 9776
    height 9776
  Eucalyptus marginata, Phytophthora cinnamomi 13267
  Festuca arundinacea
    digestibility 9256
    quality 9256
  forest trees, yield components 13260
  Fragaria ananassa, yield components 8421
  Glycine, growth period 510
  Glycine gracilis, yield components 10473
  Glycine max
    Agrobacterium tumefaciens 12864
    Heterodera glycines 6142
    leaves 12856
    statistics 11700
    yield components 7085, 10473, 11714, 12854, 12856-12857
  Gossypium
    quality 9745
    yield components 9745
  Gossypium arboreum, yield components 6519, 10972, 10974
  Gossypium herbaceum, yield components 5498
  Gossypium hirsutum
    Heliothis virescens 6522
    quality 8575, 9746, 13241
    seeds 4322
    yield components 8575, 13241
  grain legumes, stress 8135
  Guizotia abyssinica, yield components 10895
  Helianthus annuus
    leaves 7340
    yield components 6359
  Hevea brasiliensis, yield components 12177
  Hordeum vulgare, yield components 286
  Ipomoea batatas
    Ceratocystis fimbriata 3027
    yield components 3027
  Larix, rooting capacity 13321
  Larix laricina
    habit 9824
    height 9824
  Leymus angustus, waxes 9260
  Lolium perenne, leaves 12789
  Lycopersicon cheesmanii, Alternaria alternata 13017
  Lycopersicon esculentum
    Alternaria alternata 13017
    growth period 3060
    yield components 4065, 4067
  Lythrum salicaria
    heterostyly 11063
    sex 11063
  Macrotyloma uniflorum, yield components 2940
  mathematics 3533
  Mimulus guttatus
    copper 4432
    toxic substances 4432
  Moringa oleifera, yield components 7372
  Nemophila menziesii, competitive ability 4431
  Oenothera biennis, fatty acids 8507

Heritability *cont.*
  Oryza sativa
    anther culture 4891
    embryo culture 1570
    habit 10370
    plant embryos 1558
    pollen 6974
    regenerative ability 4891
    spikelets 6974
    stems 10370
    tissue culture 1570
    yield components 422, 1567, 1600, 11591-11592
  Panicum coloratum, yield components 10320
  Panicum miliaceum, yield components 6956
  Penstemon centranthifolius, flowers 2191
  Persea americana, yield components 9630, 12019
  Phaseolus vulgaris
    Phoma exigua 2899
    yield components 10507
  Picea engelmannii
    development 2144
    specific gravity 2144
  Picea glauca
    development 2144, 4374
    height 4374
    specific gravity 2144
  Pinus elliottii, yield components 4367
  Pinus gerardiana
    cones 3357
    seeds 3357
  Pinus nigra
    cones 2138
    seed production 2138
  Pinus oocarpa, yield components 985
  Pinus patula
    brittleness 7483
    wind 7483
    yield components 13302
  Pinus radiata, wood properties 8636
  Pinus taeda, Cronartium fusiforme 4369
  Pisum sativum, yield components 6186
  Populus, habit 12188
  Populus balsamifera
    growth period 2118
    height 2118
  Populus deltoides
    Melampsora allii-populina 8611
    Melampsora larici-populina 8611
  Prunus persica
    Criconemella xenoplax 4145
    sugars 4143
  Pseudotsuga menziesii
    buds 5606
    wood properties 11032
    yield components 7494
  Pyrus pyrifolia
    fruits 9582
    growth period 739, 9582
    ripening 9582
  quantitative traits, statistics 2371
  Quercus petraea, wood properties 7443
  Quercus robur, wood properties 7443
  Ricinus communis, yield components 9692
  Saccharum officinarum, Puccinia melanocephala 894
  Saccharum robustum
    quality 5415
    yield components 5415
  Sagittaria trifolia, yield components 12965
  Salix sericea, salicortins 4352
  Salix viminalis, Dasineura marginemtorquens 977
  Schima superba, yield components 9805
  Secale cereale
    Erysiphe graminis 6869
    Fusarium culmorum 2659
    Gibberella zeae 2659
  Senna multijuga
    dormancy 12198
    germination 12198
  Sesamum indicum, yield components 12097, 13171
  Sida hermaphrodita, yield components 12776
  Sinapis alba, fatty acids 3214

Heritability *cont.*
  Solanum chacoense
    regenerative ability 12937
    unreduced gametes 8240
  Solanum melongena, yield components 691, 4081
  Solanum phureja, unreduced gametes 8240
  Solanum sessiliflorum
    fruits 5331
    quality 5331
    yields 5331
  Solanum tuberosum
    Alternaria solani 6240
    quality 8253
    yield components 10579
  Sorghum bicolor
    development 7978
    flooding 360
    germination 360, 7977
  Stevia rebaudiana
    stevioside 900
    yield components 900
  Trifolium repens
    nitrogen 7055
    nutrients 7055
    persistence 11674
    phosphorus 7055
    yield components 11674
  triticale
    dormancy 12649
    lodging 4799
    stems 4799
  Triticum aestivum
    aluminium 3650
    biomass 3621
    development 11329, 11331
    Erysiphe graminis 8926, 10137
    Fusarium culmorum 6772
    growth period 11331
    height 3650
    nutrients 3637
    potassium 3637
    quality 3634, 10069
    seeds 11329
    sprouting 7762
    toxic substances 3650
    transpiration 12537
    Typhula ishikariensis 12565
    yield components 3621, 4705-4706, 6757-6758, 7765, 10069, 10106, 10108, 10110, 11331
  Triticum turgidum, yield components 6754
  Tsuga heterophylla
    height 9829
    rooting capacity 3367
  Vicia faba
    outcrossing 11734
    yield components 136, 6151, 10498
  Vigna mungo
    harvest index 10555
    yield components 10557, 11784
  Vigna radiata, yield components 590, 1769-1770
  Vigna umbellata, yield components 7153
  Vigna unguiculata, yield components 2936
  Zea mays
    drought resistance 3760
    Erwinia stewartii 4838
    photosynthesis 344
    quantitative traits 9051
    seeds 1429
    soil pH 5982
    yield components 5975, 5982, 9118, 11465
Hermaphroditism
  Anacardium occidentale 9656
  Phacelia dubia 4422
  Phacelia linearis 7510
  Trifolium hirtum 3923
Herpes simplex virus
  Arabidopsis thaliana
    genetic markers 7619
    genetic transformation 7619
Heteranthelium, taxonomy 7039
Heterochromatin
  Cestrum parqui 3429
  Dasypyrum villosum 9269
  Ionopsidium savianum 7509

- **Heterochromatin** *cont.*
  - triticale 4802, 8993
  - *Zea mays* 2678, 7912
- ***Heterodera***
  - *Avena sativa* 4663
  - cereals 4663
  - *Cicer arietinum* 8141
  - *Hordeum vulgare,* genetics 4663
  - *Pisum sativum* 8141
  - *Vicia faba* 8141
- ***Heterodera avenae***
  - *Aegilops squarrosa* 5901
    - gene mapping 7831
    - random amplified polymorphic DNA 7831
    - restriction fragment length polymorphism 7793, 7831
  - *Aegilops ventricosa,* genetics 4746
  - *Aegilops × Triticum,* genetics 4746
  - *Hordeum vulgare,* genetics 2624
  - *Secale cereale*
    - gene mapping 6871
    - linkage 6871
  - *Triticum aestivum*
    - genetics 4746
    - restriction fragment length polymorphism 7793
  - *Triticum durum,* genetics 4746
- ***Heterodera ciceri,*** *Lens culinaris* 8206
- ***Heterodera glycines***
  - *Glycine max* 527, 6143, 9326-9327
    - genetic variance 6142
    - genetics 6142, 11732
    - heritability 6142
    - random amplified polymorphic DNA 10492
    - restriction fragment length polymorphism 6144, 10492
- ***Heterodera goettingiana,*** *Pisum sativum* 2917
- ***Heterodera schachtii***
  - *Arabidopsis thaliana,* gene expression 3531
  - *Brassica × Raphanus* 840
  - *Nicotiana tabacum,* gene expression 3531
- **Heterokaryosis,** *Agaricus bisporus* 13406
- ***Heteropogon contortus,*** varieties, Rocker 3893
- ***Heteropsylla cubana***
  - *Leucaena diversifolia* 12203
  - *Leucaena leucocephala* 12203
  - *Leucaena pallida* 12203
- **Heterosis** 97, 1084, 1182, 5967
  - *Abelmoschus esculentus,* yield components 1884-1885
  - *Agaricus bisporus* 13405
  - *Anacardium occidentale,* yield components 6338
  - *Arachis hypogaea,* yield components 1983
  - *Atylosia × Cajanus*
    - methionine 577
    - proteins 577
  - *Avena sativa,* yield components 1379
  - *Beta vulgaris*
    - sugarbeet
      - sugars 3271
      - yields 3271, 5426
  - biotechnology 2373
    - reviews 1183
  - *Boehmeria nivea,* yield components 964
  - *Brassica campestris*
    - forage 1950
    - yield components 1950
    - toria, yields 1936, 1949
    - turnip rape, yield components 1939
  - *Brassica juncea* 8471
    - forage 1950
    - yield components 1939, 1950, 4215
  - *Brassica napus*
    - forage 1950
    - yield components 1950
    - rape
      - anatomy 12043
      - seedlings 12043
      - yield components 1937, 1952, 5367-5368
      - yields 1949
  - *Cajanus cajan*
    - tissue culture 1759
    - yield components 1759, 9424
- **Heterosis** *cont.*
  - *Cajanus cajan cont.*
    - yields 3977
  - *Carica papaya,* yields 13106
  - *Carthamus tinctorius,* yield components 6364, 10869
  - *Cicer arietinum*
    - albumins 1752
    - development 9416
    - globulins 1752
    - *Helicoverpa armigera* 575
    - yield components 1746, 1749
  - *Cocos nucifera* 6371, 6380
  - *Cucumis sativus,* germination 11934
  - *Cucurbita maxima,* yield components 4110
  - *Curcuma aromatica,* yield components 2231
  - drought resistance 1111
  - *Eucalyptus*
    - germination 9777
    - seeds 9777
  - *Eustoma grandiflorum*
    - growth period 11065
    - leaves 11065
    - stems 11065
  - *Glycine max*
    - harvest index 1702
    - stems 1702
    - yield components 2862, 3947, 6137, 8156
  - *Gossypium,* yield components 946
  - *Gossypium arboreum*
    - quality 4326
    - yield components 4325-4326, 10973
  - *Gossypium barbadense,* quality 9748
  - *Gossypium hirsutum*
    - growth period 2086
    - harvest index 3324
    - quality 9748
    - yield components 2086, 5500
    - yields 3324, 5493
  - *Helianthus annuus*
    - drought resistance 6363
    - oils 3219
    - photosynthesis 6363
    - quality 3219
    - stomata 6363
    - yield components 1968, 4234, 8497
  - *Hevea brasiliensis,* yield components 966, 12177
  - *Hordeum vulgare*
    - quality 282, 5918
    - yield components 2588
    - yields 5918
  - *Lagenaria siceraria,* yield components 4114
  - *Linum usitatissimum*
    - linseed
      - irrigation 3216
      - yield components 3216
      - yields 1961
  - *Lolium perenne* 6066
  - *Lycopersicon esculentum*
    - development 10669
    - fruits 10673
    - photosynthesis 10669
    - quality 10673
    - yield components 1838, 3061, 4066, 7230
    - yields 1832
  - multivariate analysis 3538
  - *Nicotiana tabacum,* yield components 933
  - *Ocimum*
    - essential oils 2234
    - yield components 2234
  - *Ocimum americanum*
    - camphor 2235
    - linalool 2235
  - *Oryza sativa* 413, 9203
    - growth period 9221, 11580
    - leaves 2745
    - photoperiodism 11580
    - photosynthesis 6034, 10371
    - pollen 6974
    - proteins 6976
    - quality 404, 6047
    - roots 2745
    - spikelets 6974
    - variety classification 6976
- **Heterosis** *cont.*
  - *Oryza sativa cont.*
    - yield components 404, 422-424, 1562, 1565-1566, 3835-3836, 6979, 6982, 8022, 10373-10374, 12728
    - yields 1534, 2745
  - *Pennisetum glaucum*
    - development 1496
    - forage 3788
    - leaves 1496
    - yield components 1504, 6959, 10327, 10329, 11538
    - yields 1496, 3788
  - *Phaseolus vulgaris*
    - leaves 12873
    - plant hairs 12873
  - *Pisum sativum*
    - nitrogen fixation 1741
    - yield components 1739, 8189-8190
    - yields 1741, 11238
  - *Scabiosa columbaria* 12244
  - *Secale cereale*
    - aluminium 10065
    - toxic substances 10065
  - self compatibility, reviews 10043
  - *Sesamum indicum*
    - shedding 4268
    - yield components 12096
  - *Sinapis alba,* fatty acids 3214
  - *Solanum melongena*
    - habit 690
    - height 690
    - yield components 6283
  - *Solanum tuberosum,* yield components 9456
  - *Sorghum bicolor*
    - *Cercospora sorghi* 1486
    - drought resistance 1111
    - *Ramulispora sorghi* 1486
    - *Ramulispora sorghicola* 1486
    - yield components 3772, 10308
  - triticale, yields 8984
  - *Triticum aestivum* 1263, 6747
    - carotenoids 4701
    - chlorophyll 4701
    - harvest index 2459
    - molecular genetics 2428
    - seeds 11327
    - weight 11327
    - yield components 218, 1305-1306, 2517, 4683, 6757, 7747, 10104, 12531
    - yields 2459, 7746
  - *Triticum durum*
    - carboxylases 8896
    - proteins 8896
    - ribulose-bisphosphate carboxylase 8896
  - *Triticum spelta,* yield components 10104
  - vegetables 1185
  - *Vicia faba,* yield components 10494-10496, 11735
  - *Vigna radiata*
    - nodulation 2939
    - yield components 2939, 6223, 7151
  - yields 1111
  - *Zea mays* 1405, 1409, 5967, 6879, 6887, 11448
    - *Chilo partellus* 9166
    - chloroplasts 10268
    - DNA 320
    - drought resistance 1111
    - gibberellins 148
    - growth regulators 148
    - insects 3752
    - leaves 1425
    - mathematics 1406
    - molecular genetics 2428
    - nutrients 4829
    - *Ostrinia nubilalis* 7970
    - photosynthesis 10268
    - plant embryos 1431
    - restriction fragment length polymorphism 10246
    - *Setosphaeria turcica* 9154
    - yield components 334, 1410, 3752, 4829
    - yields 1408, 11238
  - *Zea mexicana* 1409
- ***Heterospathe parviflora,*** taxonomy 5574

- ***Heterosporium*** *(see also Cladosporium)*
- **Heterostyly** 1212
  - *Decodon verticillatus* 9908, 11064
    - genetics 4467
  - *Eichhornia paniculata,* genetics 9909
  - *Jasminum fruticans* 5619
  - *Lythrum salicaria*
    - genetic variance 11063
    - heritability 11063
  - *Primula* 4420
- **Heterozygosity**
  - *Acer saccharum,* stress 2043
  - computer simulation 5792
  - *Fagus sylvatica,* height 9786
  - *Medicago sativa* 9282, 11654
  - *Pinus flexilis* 1181
  - *Pinus sylvestris,* air pollution 2140
  - *Solanum tuberosum* 8242
  - statistics 1181
  - *Vicia faba* 10499
  - *Zizania aquatica*
    - isoenzymes 3868
    - latitude 3868
  - *Zizania palustris*
    - isoenzymes 3868
    - latitude 3868
- ***Hevea***
  - breeding 12176
  - genetic variation, isoenzymes 12176
- ***Hevea brasiliensis***
  - breeding 11268
  - cell culture 6529
  - chloroplast genetics, ribulose-bisphosphate carboxylase 4344
  - combining ability, yield components 966
  - flowering 9764
  - gene expression, superoxide dismutase 965
  - genetic resources, yield components 12179
  - genetic transformation 10988
  - genetic variation 4347
    - isoenzymes 12175
  - growth regulators 9764
  - heritability, yield components 12177
  - heterosis, yield components 966, 12177
  - *in vitro* culture 786
  - inbreeding 12175
  - molecular genetics, superoxide dismutase 965
  - multivariate analysis, yield components 12178
  - nucleotide sequences, ribulose-bisphosphate carboxylase 4344
  - outcrossing 12175
  - paclobutrazol 9764
  - protoplasts 6529
  - provenance trials, yield components 12179
  - restriction fragment length polymorphism 7432, 9763
  - variety trials 10987
- ***Hexalectris spicata,*** taxonomy 8718
- ***Hibiscus***
  - alcohol dehydrogenase 960
  - centres of diversity 8582
  - genomes 8582
  - isoenzymes 960
  - malate dehydrogenase 960
- ***Hibiscus cannabinus***
  - cutting 7431
  - forage 7427, 7431
  - genetic resources 2104, 7406
  - genetic transformation 12172
  - genetics, photoperiodism 12174
  - interspecific hybridization 960, 4343
  - proteins 13249
  - seed aging 7428
  - seed testing 7428
  - stability
    - colour 4343
    - leaves 4343
  - taxonomy 2104
  - variety trials 7426-7427, 12171
  - yield components 13249
  - yield correlations 12157
  - varieties, Minghong 82/34 2106
- ***Hibiscus esculentus*** *(see Abelmoschus esculentus)*
- ***Hibiscus moscheutos***
  - pollen competition 2185
- ***Hibiscus moscheutos*** *cont.*
  - self compatibility 2185
- ***Hibiscus radiatus***
  - interspecific hybridization 4343
  - stability
    - colour 4343
    - leaves 4343
- ***Hibiscus sabdariffa***
  - ethyl methanesulfonate 5514
  - genetic resources 7406
  - induced mutations 5514
  - interspecific hybridization 960
  - mutagens 5514
- ***Hibiscus syriacus,*** tissue culture 12235
- ***Hicoria*** *(see Carya)*
- ***Hippophae neurocarpa,*** genetic variation, isoenzymes 4164
- ***Hippophae rhamnoides***
  - breeding 7282
  - genetic variation, isoenzymes 4164
  - mechanical harvesting 12007
  - nutritive value 3169
  - plant composition 3169
  - provenance trials 5308
  - variety trials 10798
- ***Hippophae tibetana,*** genetic variation, isoenzymes 4164
- **Histidine decarboxylase**
  - *Lycopersicon esculentum*
    - gene expression 1829
    - nucleotide sequences 1829
- **Histones**
  - *Arabidopsis thaliana*
    - gene expression 12398
    - genetic engineering 12398
    - genetic transformation 12398
  - crops
    - molecular genetics 9982
    - nucleotide sequences 9982
  - *Helianthus annuus,* genetic transformation 7737
  - *Hyoscyamus niger*
    - gene expression 396, 2220
    - genetic transformation 396, 2220
  - *Lycopersicon esculentum*
    - gene expression 8333
    - molecular genetics 8333
  - *Nicotiana tabacum*
    - gene expression 12398
    - genetic transformation 12398
  - *Oryza sativa*
    - gene expression 396, 1276, 3816
    - genetic engineering 396
    - genetic transformation 1276
  - *Pisum sativum*
    - gene expression 6182
    - genetic variation 1735
    - natural selection 1735
  - *Triticum aestivum*
    - gene expression 188, 1276, 7737, 11355
    - genetic engineering 1276
  - *Vicia unijuga*
    - natural selection 483
    - population genetics 483
- **History**
  - *Abelmoschus* 1878
  - *Abelmoschus esculentus* 1878
  - apomixis 2382
  - *Arachis hypogaea,* breeding 12075
  - *Avena sativa,* breeding 3686, 12632
  - *Avena sterilis,* breeding 12632
  - *Beta vulgaris*
    - fodder beet, breeding 3034
    - sugarbeet, breeding 4277
  - *Brassica campestris*
    - turnip rape
      - breeders' rights 4522
      - breeding 4522
  - *Brassica napus*
    - rape
      - breeders' rights 4522
      - breeding 4522
  - breeding 2
  - Cactaceae, breeding 7533
  - *Caltha palustris,* breeding 8668
  - chromosome morphology 2377
  - *Cocos nucifera,* breeding 6368-6369
  - crops 6717
    - breeding 3, 11267
    - induced mutations 2375
- **History** *cont.*
  - *Cucumis sativus,* breeding 11926
  - diseases, reviews 6650
  - *Elaeis guineensis*
    - breeding 12066
    - height 4239
  - *Fragaria ananassa,* breeding 3103
  - fruit crops
    - breeding 729
    - legislation 729
  - genetics 2
    - books 2267
  - *Gerbera,* breeding 9862
  - *Glycine max,* breeding 6134, 9321, 10450
  - *Gossypium,* breeding 12158
  - *Hordeum vulgare*
    - breeding 5903, 11373-11374
    - genetics, *Erysiphe graminis* 1371
    - induced mutations 2375
      - *Erysiphe graminis* 1371
  - induced mutations 5796
  - *Malus pumila,* breeding 3103
  - *Medicago sativa,* breeding 11654
  - mutagens 5796
  - ornamental succulent plants, breeding 7533
  - *Oryza sativa* 1511
    - breeding 3794, 6012, 6050, 10335, 12705
    - genetic resources 6012
  - pests, reviews 6650
  - *Pisum sativum*
    - genetics 2267
    - hybridization 2267
  - population genetics 2364-2365
  - *Prunus,* plums, breeding 3103
  - *Prunus avium,* breeding 3103
  - *Ribes nigrum,* breeding 3103
  - *Ribes uva-crispa,* breeding 3103
  - *Rubus idaeus,* breeding 4146
  - *Saccharum officinarum,* artificial selection 4271
  - *Saccharum spontaneum,* artificial selection 4271
  - *Solanum tuberosum*
    - breeding 598
    - genetic resources 612
    - plant introduction 5085
  - *Sorghum bicolor,* breeding 2706
  - taxonomy 7681, 12460
  - temperate fruits, breeding 3103
  - *Triticum,* breeding 166
  - *Triticum aestivum*
    - biomass 2479
    - breeding 1300, 5851, 5870, 6753, 11354, 12480
    - yield components 5870
  - *Triticum durum,* breeding 12480
  - vegetables, breeding 11267
  - *Vigna,* taxonomy 584
  - *Vitis vinifera*
    - artificial selection 10776
    - breeding 10776
  - *Zea mays*
    - breeding 303
    - colour 10282
    - genetics 3728
    - nutritive value 1438
    - plant introduction 9143
    - yields 303
- ***Holcus,*** chromosome morphology 2810
- ***Holcus lanatus***
  - arsenates 12807
  - arsenic 471
  - competitive ability 10412
  - cutting 10412
  - nitrogen 7019
  - nutrients 7019, 12807
  - phosphorus 12807
  - soil toxicity 471
  - stress 7019
- ***Holttumochloa,*** taxonomy 7558
- ***Homoeosoma electellum,*** *Helianthus* 7354
- ***Homoeosoma nebulella,*** *Helianthus* 7354
- **Homozygosity**
  - *Hordeum vulgare* 12595
  - *Oryza sativa* 11594
- **Hordein**
  - *Hordeum murinum*
    - gene location 8955

Hordein *cont.*
- *Hordeum murinum cont.*
  - linkage 8955
- *Hordeum pusillum*
  - gene location 8955
  - linkage 8955
- *Hordeum spontaneum* 6833
- *Hordeum vulgare* 281, 288, 2433, 2614, 4760, 6833, 8963, 12602
  - DNA hybridization 4754
  - gene expression 6820
  - gene location 275
  - gene mapping 7836
  - genetic markers 1355
  - genetics 284
  - linkage 12624
  - mutations 3677
  - nucleotide sequences 2583, 3677, 6820
  - polymorphism 12601
  - restriction fragment length polymorphism 7836

Hordelymus europaeus, chromosome banding 12800

Hordelymus* × *Elymus
- chromosome banding 12800
- intergeneric hybridization 12800

Hordelymus* × *Hordeum
- chromosome banding 12800
- intergeneric hybridization 12800

Hordelymus* × *Secale
- chromosome banding 12800
- intergeneric hybridization 12800

Hordeum
- α-amylase 160
- anthers 7708
- barley yellow dwarf luteovirus 11624
- *Erysiphe graminis* 11624
- gene banks 7690, 12589
- gene location, taxonomy 7036
- genetic resources 6816, 12589
- genetics, *Puccinia hordei* 4780
- genomes
  - *Erysiphe graminis* 4659
  - *Puccinia* 4659
- inflorescences 7712
- intergeneric hybridization 4659
- interspecific hybridization 7841
- linkage
  - milling quality 5849
  - salinity 5849
- outcrossing 7708
- pleiotropy
  - milling quality 5849
  - salinity 5849
- random amplified polymorphic DNA, taxonomy 6838
- restriction fragment length polymorphism
  - α-amylase 8957
  - taxonomy 12619
- salinity 10393
- self pollination 7708
- taxonomy 7712, 10181

Hordeum agriocrithon
- artificial selection
  - brittleness 3672
  - inflorescences 3672
- chromosome banding 4756
- chromosome morphology 4756
- genetic resources 12588
- interspecific hybridization 3672, 12588

Hordeum bulbosum
- anther culture 10177
- chromosome elimination 12595
- chromosome translocation 11382
- cytology 5843
- genetic resources 7691
- haploidy 276, 10177
- interspecific hybridization 276, 2595, 2634, 5843, 11382, 12595
- random amplified polymorphic DNA, *Erysiphe graminis* 2634

Hordeum californicum, genetics 7743

Hordeum chilense
- chromosome addition 2651
- *Erysiphe graminis* 289
- fungi 7714
- *Puccinia hordei* 6854
- *Puccinia recondita* 6854
- *Schizaphis graminum* 12631

Hordeum depressum, interspecific hybridization 7841

Hordeum marinum
- anther culture 10177
- haploidy 10177

Hordeum murinum
- anther culture 10177, 12597
- cell culture 12597
- embryo culture 12597
- gene location, hordein 8955
- genetic resources 7691
- genetics
  - diquat 5928
  - herbicides 5928
  - paraquat 5928
- haploidy 10177, 12597
- interspecific hybridization 8955
- linkage, hordein 8955
- protoplasts 5916

Hordeum pusillum
- gene location, hordein 8955
- interspecific hybridization 8955
- linkage, hordein 8955

Hordeum spontaneum
- α-amylase inhibitor 6833
- artificial selection 1244
  - brittleness 3672
  - inflorescences 3672
- domestication 6833
- drought resistance 11393
- *Erysiphe graminis* 12628
- gene flow, mathematics 8845
- gene location, proteins 12606
- gene mapping 7837
- genetic resources 2581
- genetic variation, random amplified polymorphic DNA 269
- genetics, proteins 12606
- hordein 6833
- interspecific hybridization 3672, 4780, 7837
- natural selection 1244
- photosynthesis 7844, 11393
- polymerase chain reaction 2581
- polymorphism, isoenzymes 7840
- population genetics 1244
- *Puccinia hordei* 2640
- quality 2620
- restriction fragment length polymorphism 7837, 7840
  - α-amylase 8957
- trypsin inhibitors 6833

Hordeum vulgare
- abscisic acid 2611, 6828
- *Alternaria alternata* 10189
- altitude 4771, 12609
- aluminium 4772
- *p*-aminobenzoic acid 2590
- α-amylase 8963
- α-amylase inhibitor 6833
- β-amylase 8963
- aneuploidy 2592
- anther culture 280, 2429, 2576, 2617, 3681, 5917, 11386, 12473, 12610
- artificial selection 1244
  - brittleness 3672
  - cold resistance 5920
  - drought resistance 2622
  - *Erysiphe graminis* 7860
  - growth period 5920
  - ideotypes 5920
  - inflorescences 3672
  - salinity 8966
  - stability 4657
- *Avena fatua* 5927
- awns 12605
- back mutations
  - free radicals 2589, 2612
  - inflorescences 2589, 2591, 2612
  - lysine 2589
  - proteins 2589, 2612
- backcrossing, cytoplasmic male sterility 1353
- barley mild mosaic bymovirus 7862, 10194
- barley yellow dwarf luteovirus 165, 2442, 3683
  - databases 2623
- barley yellow mosaic bymovirus 7862, 10194, 12463
  - databases 2623

Hordeum vulgare *cont.*
- biomass 4655-4656
- breeding 2421, 2576-2579, 2588, 4751, 5839, 11380, 12584
  - books 7577
  - computer simulation 2575
  - history 5903, 11373-11374
  - reviews 10154
- caesium 8965
- caffeine 10167
- canopy 1367
- cell culture 10176
- cell division 11397
- chlorophyll 6732, 7854
- chloroplast genetics 273, 5914, 7695, 12468
  - chlorophyll 7845
  - photosynthesis 10172, 11376-11377
  - ribulose-bisphosphate carboxylase 11376
- chromatin 6826
- chromosome aberrations 2596, 6825, 10037, 10165, 11383
- chromosome addition 2594, 3675, 10141, 12606
- chromosome banding 1350, 4756, 12596
- chromosome morphology 3675, 4756
- chromosome translocation 1351, 2592, 11382
- *Cochliobolus sativus* 6738, 7715
- cold 11391
- cold resistance 6736, 7022, 7855, 10185, 11290-11291, 11391-11392
- combining ability
  - quality 282, 5918
  - yields 5918
- competitive ability 1251, 2422, 5927, 11288
- crop density 1367, 2621, 6840, 11388, 12620
- crop mixtures 11288
- cutting 4767
- cypermethrin 10037
- cysteine 2590
- cytogenetics 5843
- databases 12586
- deletions 12596
- development 5845, 10170
- digestibility 4764, 6836, 10180
- dimethoate 11383
- diploidy 4758
- diseases 7689
  - databases 2623
- *Diuraphis noxia* 6856, 8971
- DNA 9604, 11397
- DNA hybridization, hordein 4754
- domestication 6833
- dormancy 7843
- drought resistance 164, 1337, 1369, 4773, 9961, 10183, 11393
- electrical properties 6736
- embryo culture 10176
- endosperm 281, 6828
- *Erysiphe graminis* 2440, 2628, 2630-2633, 4776, 4779, 6738, 6850, 7856, 7858, 7861, 10192, 11292, 11396, 12627, 12629
- esterases 12602
- ethyl methanesulfonate 278, 3576, 4755, 10168
- ethyleneimine 2590-2591
- *N*-ethyl-*N*-nitrosourea 4758, 4761
- experimental design 1251, 2422
- farm inputs 4769, 10182, 12585
- fertility 4757
- fertilization 10175
- fibre 11286
- forage 4767
- fungicides 12479
- *Fusarium culmorum* 2625
- *Fusarium roseum* 2625
- gamma radiation 278, 1351, 3576, 4653, 4758, 6732, 8959
- gene banks 152, 2599, 12586-12587, 12589
- gene expression 3573, 3804
  - abscisic acid 155, 268, 11384
  - alanine aminotransferase 6842
  - amylase inhibitors 1341
  - α-amylase 155, 267, 3671, 11375
  - anoxia 6842, 8952

Hordeum vulgare *cont.*
- gene expression *cont.*
  - calcium binding proteins 10164
  - calreticulin 10164
  - chlorophyll 7845
  - chlorosis 6821
  - cold 3669, 8964
  - dihydrokaempferol 4-reductase 2615
  - dioxygenase 12592
  - DNA binding proteins 3671
  - dormancy 6829
  - drought resistance 12621
  - embryology 11378
  - enzymes 1247
  - *Erysiphe graminis* 290, 2629, 5923, 10190, 11394
  - gibberellins 155, 267, 3671
  - β-glucanase 2582, 266, 11379
  - glucose dehydrogenase 12594
  - glutamate synthase 3670
  - growth regulators 155, 267-268
  - haemoglobin 8952
  - heat shock proteins 271
  - hordein 6820
  - iron 12592
  - *Leptosphaeria nodorum* 5922
  - lipid transfer proteins 3668, 12604
  - nitrite reductase 7846
  - nutrients 12592
  - oleosins 6829
  - organelles 10163
  - pathogenesis-related proteins 290
  - photosynthesis 2601, 2603, 4762, 10163, 10172, 11376-11377
  - plant embryos 11378
  - ribitol dehydrogenase 12594
  - ribosome inactivating proteins 6500
  - ribulose-bisphosphate carboxylase 11376
  - sucrose synthase 274
  - thioneins 8953
- gene location 2584
  - amylase inhibitors 1341
  - α-amylase 8956
  - barley mild mosaic bymovirus 4781
  - barley yellow mosaic bymovirus 4781
  - calcium binding proteins 10164
  - calreticulin 10164
  - chlorophyll 1363, 2600
  - *Diuraphis noxia* 8972
  - dormancy 12599
  - elongation factors 272
  - *Erysiphe graminis* 12626
  - growth period 10173
  - habit 10173
  - hordein 275
  - ligules 12603
  - lipid transfer proteins 3668
  - morphology 2606
  - photosynthesis 2430
  - proteins 12606
  - yield components 10173
- gene mapping 1346-1347, 5907, 6728, 6822, 6824, 7698-7702, 7725, 7837-7838, 10173
  - aminopeptidases 7836
  - α-amylase 7836
  - esterases 7836
  - glucose-1-phosphate adenylyltransferase 6834
  - growth period 6823
  - height 6823
  - hordein 7836
  - *Puccinia graminis* 11395
  - *Puccinia striiformis* 8968
  - quantitative traits 4770
  - water soluble proteins 7836
- genetic engineering 4735, 12478
  - α-amylase 8803
  - β-glucanase 2582, 266
  - hordothionins 5463
  - pathogenesis-related proteins 5463
  - photosynthesis 2603
  - ribosome inactivating proteins 6500
  - starch 12396
  - thioneins 8953
  - trypsin inhibitors 2427
- genetic markers 2584, 7838
  - anther culture 12612
  - *Diuraphis noxia* 8972
  - hordein 1355

Hordeum vulgare *cont.*
- genetic markers *cont.*
  - isoenzymes, reviews 145
  - quantitative traits 12607
- genetic resources 285, 5839, 5902, 6817, 7689, 7832, 11380, 12586-12589, 12591, 12601, 13408
- genetic transformation 2424, 2951, 3804, 5905, 5908, 7706
  - α-amylase 11375
  - auxins 3495
  - dihydrokaempferol 4-reductase 3673, 2615
  - *Erysiphe graminis* 2629
  - β-glucanase 2582
  - growth regulators 3495
  - starch 12396
  - trypsin inhibitors 2427
- genetics 1349, 2587
  - anthocyanins 3678
  - aspartate aminotransferase 1359
  - barley mild mosaic bymovirus 1373, 3684, 4781
  - barley yellow dwarf luteovirus 4782, 12630
  - barley yellow mosaic bymovirus 291, 1373, 3684, 4781
  - cold resistance 5919
  - *Diuraphis noxia* 8972
  - dormancy 5915, 12599
  - endosperm 2605, 7847
  - *Erysiphe graminis* 288, 1372, 2624, 2635-2637, 3682, 4775, 4777-4778, 5924, 6846-6849, 6851-6852, 7859, 10191, 12625
    - history 1371
  - esterases 291, 1359, 2607
  - flowering 5913
  - free radicals 2589, 2612
  - fungi 2624
  - germination 1356
  - growth regulators 5915
  - height 1358, 2609
  - *Heterodera* 4663
  - *Heterodera avenae* 2624
  - hordein 284
  - inflorescences 2589, 2591, 2612, 2616, 3679
  - internodes 278
  - isoenzymes 1357, 1359, 2607
  - lysine 2589, 2616
  - male sterility 1352
  - morphology 1358, 5913
  - nitrate reductase 12469
  - proteins 2589, 2612, 2616, 12606
  - *Puccinia graminis* 10193
  - *Pyrenophora graminea* 12622
  - *Pyrenophora teres* 2626
  - quality 8962
  - *Schizaphis graminum* 2624
  - seeds 1356
  - spring and winter habit 3679, 6831
  - sterility 1354
  - tillering 8962
  - viruses 2624
  - waxes 2434
- genotype environment interaction
  - plant composition 1249
  - quality 12618
  - quantitative traits 4770
  - yield components 7849, 8872
  - yields 11161
- genotype mixtures 1251, 6852, 10188, 10192, 12629
- germination 2613, 11266
- *Gibberella zeae* 2625
- gibberellic acid 2611
- β-glucan 2619
- glucans 12613-12614
- growth period 8958, 10174, 12598
- growth regulators 2611, 6828
- habit 5912
- haploidy 276-277, 2429, 2595, 2597, 4757, 7710, 10191, 12463, 12595, 12599, 12612
- heat resistance 164, 4773
- heat shock 6825, 10165-10166
- heritability, yield components 286
- heterosis
  - quality 282, 5918
  - yield components 2588

Hordeum vulgare *cont.*
- heterosis *cont.*
  - yields 5918
- homozygosity 12595
- hordein 281, 288, 2433, 2614, 4760, 6833, 8963, 12602
- *in vitro* selection
  - aluminium 287
  - soil pH 287
  - toxic substances 287
- induced mutations 2590, 4758
  - chlorophyll 3576, 4761, 5910, 10166-10167
  - chloroplasts 4761
  - dihydrokaempferol 4-reductase 3673
  - *Erysiphe graminis,* history 1371
  - growth period 5904
  - history 2375
  - internodes 278
  - lysine 12617
  - naked grain 4760
  - nitrate reductase 4759
  - proteins 4759
  - tissue culture 8959
  - yield components 4755, 10168
  - yields 4759
- inflorescences 2588, 6840, 11387-11388
- interspecific hybridization 276, 2595, 2634, 3672, 4780, 5843, 7837, 11382, 12588, 12595
- irrigation 4764, 4768
- isoenzymes 7689
- lasers 5910
- lethals, chlorophyll 2608
- linkage 2585-2586, 7700-7701
  - β-amylase 1361
  - chlorophyll 1360, 1362
  - endosperm 1360
  - *Erysiphe graminis* 1361, 12624
  - esterases 1360, 1362
  - hordein 12624
  - morphology 1361-1362
  - quality 5849
  - quantitative traits 12607
  - *Rhynchosporium secalis* 1370
  - salinity 5849
- lodging 4758, 5902
- lysine 4766
- malathion 11383
- male sterility 2599
- maleic hydrazide 6825
- manganese 12477
- meiosis, techniques 5911
- metham 2611
- methyl methanesulfonate 10168
- *N*-methyl-*N*-nitrosourea 4760, 5904, 5910
- mitochondrial genetics 7695
- molecular genetics 3573, 11380, 12591
  - ACP synthase 1343
  - α-amylase 5906
  - chromosome morphology 2376
  - cold resistance 7713
  - drought resistance 12621
  - elongation factors 272
  - endosperm 12600
  - *Erysiphe graminis* 290, 5925-5926
  - β-glucanase 1344
  - glutamate-ammonia ligase 1340
  - *Leptosphaeria nodorum* 5922
  - nutritive value 1250
  - pathogenesis-related proteins 290
  - peroxidases 5926
  - photosynthesis 2430, 2602, 2604
  - proteins 1250
  - quality 7711
  - ribulose-bisphosphate carboxylase 5909
- *Monographella nivalis* 7022, 11291
- morphology 4751, 12602
- mutagens 278, 2590-2591, 3576, 3673, 4755, 4758-4761, 5904, 5910, 6825, 10037, 10165-10168, 11383
- mutations
  - anthocyanidins 12616
  - anthocyanins 2615, 3678
  - chlorophyll 1363, 2608, 7709
  - chlorophyll *a/b* binding protein 4763
  - development 6837
  - dihydrokaempferol 4-reductase 2615
  - endosperm 1366
  - free radicals 2589, 2612

Hordeum vulgare *cont.*
  mutations *cont.*
    glutamate synthase 3670
    growth period 2610
    height 1358, 2609, 2611
    hordein 3677
    inflorescences 2589, 2591, 2596, 2612, 2616
    ligules 12603
    lysine 2589, 2616
    male sterility 1352
    morphology 1358, 2606
    nomenclature 2580
    nutritive value 12616
    organelles 10163
    outcrossing 7842
    photosynthesis 2604, 10163, 11377
    plant composition 12616
    pollination 7842
    proteins 2589, 2612, 2616
    quality 1366, 6837, 12618
    seeds 6837
    starch synthase 8954
    yield components 12616
  mycorrhizas 7850
  naked grain 4769
  natural selection 1244
  nicotinic acid 6826
  nitrate reductase 277, 7852
  nitrates 7853
  nitrogen 4776, 7851-7852, 11389
  nuclei 9604
  nucleocytoplasmic interaction
    organelles 10163
    photosynthesis 10163
  nucleolus organizer 5843, 12596
  nucleotide sequences
    adenosinetriphosphatase 7839
    alanine aminotransferase 6842
    amylase inhibitors 1341
    β-amylase 12593
    anoxia 6842
    calcium binding proteins 10164
    calreticulin 10164
    chlorosis 6821
    cold 3669
    dioxygenase 12592
    elongation factors 8951
    embryology 11378
    ferrochelatase 11381
    germin 8950
    β-glucanase 11379
    glucose dehydrogenase 12594
    glutamate synthase 3670
    haemoglobin 8952
    heat shock proteins 6841
    hordein 2583, 3677, 6820
    lipid transfer proteins 3668, 12604
    plant embryos 11378
    ribitol dehydrogenase 12594
    salinity 8950
    serpins 1342
    sucrose synthase 274
    thioneins 8953
  nutrients 4776, 7850-7853, 11389, 12477
  nutritive value 2619, 6836, 10171, 10178-10179, 12585
  Oryctolagus cuniculus 6855
  Oscinella 11397
  parathion-methyl 11383
  pesticides 10037, 11383
  phosphorus 7850
  photoperiodism 161, 11283
  photosynthesis 4773, 5912, 6832, 7844, 7858, 9961, 10170, 11393, 12605, 12608
  plant composition 12608
  pleiotropy
    quality 5849
    salinity 5849
  pollen 11386
  pollen competition 2607
  polymerase chain reaction 4795, 6824
  polymorphism, hordein 12601
  polyploidy 2598, 4758
  population genetics 1244
  prolamins 2432
  proteins 281, 4766, 4768, 7851
  protoplasts 279, 3680, 7706, 10175-10176, 12611
  Pseudomonas 2613

Hordeum vulgare *cont.*
  Puccinia graminis 2441, 2639, 4662, 5921
  Puccinia hordei 2638, 2640, 4661, 6738, 6853, 8970
  Puccinia striiformis 8969
  Pyrenophora graminea 4774, 6845, 12622
  Pyrenophora teres 2627, 6844, 8967, 10188, 12623
  quality 163, 281, 283, 2579, 4751, 7847-7848, 7851, 8960, 8963, 10063, 12476, 12590, 12615
    books 7577
  radionuclides 8965
  random amplified polymorphic DNA 7725, 12383
    Erysiphe graminis 2634
    growth period 6823
    haploidy 3674
    height 6823
    quality 4765
    quantitative traits 4765
    Rhynchosporium secalis 1370
  regenerative ability 10175
  restriction fragment length polymorphism 154, 270, 1345, 1348, 2586-2587, 4753, 4795, 6728, 6853, 7695, 7697, 7725, 7837, 10173, 12463
    aminopeptidases 7836
    α-amylase 7836, 8956-8957
    Erysiphe graminis 12625-12626
    esterases 7836
    glucose-1-phosphate adenylyltransferase 6834
    growth period 6823
    haploidy 3674
    height 6823
    hordein 7836
    ligules 12603
    nomenclature 2580
    Puccinia striiformis 8968
    water soluble proteins 7836
  Rhynchosporium secalis 2429, 7857, 8967, 10187-10188
  RNA 11397
  salinity 286, 1255, 4658, 7854, 10184, 10393, 11390
  Schizaphis graminum 1374, 10067
  seed aging 11266
  seed testing 2432
  seedlings 2611
  sister chromatid exchange 2596, 3676
  sodium azide 3576, 3673, 4759, 5910, 10165-10167
  solar radiation 6827
  somaclonal variation
    awns 11385
    Erysiphe graminis 11385
    growth period 11385
    height 11385
    yield components 11385
  sowing date 6839-6840, 7851, 11387
  spring and winter habit 11386
  stability 1368, 5848
    lodging 6830
  starch 10180
  statistics, breeding 7832
  stress 4771
  tannins 2619
  taxonomy 285
  tissue culture 1365, 2618, 6835, 7710, 11266
  toxic substances 4772, 8965
  trichlorfon 11383
  Triticum aestivum
    crop mixtures 5886
    genetics, salinity 2435
  trypsin inhibitors 6833
  Typhula incarnata 6843, 10186
  Typhula ishikariensis 6843, 7022
  variety classification 145, 285, 1355, 2432-2433, 2614, 4760
  variety trials 153, 4769, 6622, 6818-6819, 8960-8961, 12590
  water balance 7858, 12605
  weeds 12585
  wide hybridization 2588
  X radiation 1371, 8959
  yield components 2429, 10171, 10174, 12598, 12609, 12620

Hordeum vulgare *cont.*
  yield correlations 286, 1364, 12620
  varieties 134, 153
    AC Lacombe 7835
    AC Stephen 7833
    Bagan 2423
    Baraka 6727
    BHS169 1338
    Bios-1 2423
    Bracken 10162
    Colter 10155
    Comtesse 1339, 6727
    Forum 4751
    Granal 1337
    Iona 7834
    Karabalykskiĭ-1 1337
    Kibo 4648
    Mamluk 5904
    Maresi 2423
    Medicum-85 1337
    Mollybloom 10157
    Mulligan 10156
    Nomini 8949
    Omskiĭ-87 2423
    Orenburgskiĭ Kormovoĭ 4646
    Pennbar-66 10159
    Rasa 2579
    Rebelle 4752
    Rollo 10160
    Sansyuu 8948
    Stander 10158
    Tambar-500 3667
    Temp 5904
    Walker 10161
***Hordeum* × *Elymus*,** intergeneric hybridization 4926, 10169
***Hordeum* × *Hordelymus*,** intergeneric hybridization 12800
Hordeum* × *Leymus
  gene location, taxonomy 7036
  intergeneric hybridization 7036, 11649, 12619
Hordeum* × *Secale
  chromosome addition 2651
  intergeneric hybridization 2649, 2651, 4653
Hordeum* × *Triticum
  anther culture 3578
  chromosome addition 2430, 2593
  chromosome substitution 2593
  chromosome translocation 2593
  cytoplasmic inheritance 8887
  embryo culture 5881
  Erysiphe graminis 289
  genetic transformation 7696
  haploidy 3578, 5881, 8887
  intergeneric hybridization 158, 289, 2430, 2593, 3578, 3597, 3600, 5881, 6730, 6854, 7696, 8869, 8887
  polyploidy, quality 8869
  proteins 3597, 6730
  source sink relations 6730
Hordothionins
  Hordeum vulgare, genetic engineering 5463
  Nicotiana tabacum, genetic transformation 5463
Hornschuchia citriodora, taxonomy 7473
Howeia forsteriana, tissue culture 5659
Hoya, taxonomy 4402
Humidity
  Cucumis sativus 7241
  Nicotiana tabacum 2063
  Phaseolus vulgaris 8173
Humulus lupulus
  Aphidoidea 12303
  bitter acids 9943
  cell culture 11115
  chromosome morphology 4485
  chromosome number 4485
  genetic engineering 11115
  height 12303
  plant composition 2240
  protoplasts 11115
  quality 6615
  sex 4485
  somaclonal variation 11115
  tissue culture 5676, 11115
  variety trials 9942
  viruses 4486
  yield components 2240

- ***Hyacinthus***
  - DNA 9883
  - polyploidy 9883
- ***Hyacinthus orientalis***
  - radiation 990
  - tissue culture 990
- **Hybrid chlorosis**
  - *Aegilops,* genetics 3663
  - *Triticum araraticum,* genetics 3663
  - *Triticum dicoccoides,* genetics 3663
- **Hybrid necrosis**
  - *Aegilops,* genetics 3663
  - *Triticum aestivum,* genetics 12579
  - *Triticum araraticum,* genetics 3663
  - *Triticum dicoccoides,* genetics 3663
  - *Triticum durum,* genetics 12579
- **Hybrid seed production** 1202, 3537
  - *Allium cepa* 5141
  - *Beta vulgaris,* sugarbeet 2023, 5427-5429
  - *Brassica napus,* rape 827, 1940, 7323
  - *Brassica oleracea*
    - cabbages 1940, 5150
    - cauliflowers 1940
      - random amplified polymorphic DNA 7198
    - kale 1940
  - *Cajanus cajan* 1231, 1689
  - *Capsicum* 1849, 4090
  - *Cocos nucifera* 6381-6382, 10872
  - crops 1231, 2374
    - genetic engineering 1233
  - *Elaeis guineensis* 9684
  - *Gossypium* 2083, 10967
  - grain legumes 1689
  - *Helianthus annuus* 1231
  - *Larix decidua* 9823
  - *Larix eurolepis* 9823
  - *Larix leptolepis* 9823
  - *Medicago* 474
  - *Momordica charantia* 7242
  - *Oryza sativa* 1231, 1532-1533, 1535-1536, 1541, 8014-8015, 11576
  - *Pennisetum glaucum* 1231, 1494-1495
  - *Phaseolus vulgaris* 9386
  - *Secale cereale* 295
  - *Sorghum bicolor* 1231, 6923
  - *Theobroma cacao* 4286, 6473
  - *Triticum* 8885
  - *Triticum aestivum* 3595, 5862
  - vegetables 1232
  - *Zea mays* 1231, 1407, 1426, 3740, 4808, 9112, 10216, 10252, 11446
    - germplasm releases 9052
- **Hybrid varieties** 1185
  - *Beta vulgaris,* sugarbeet 3268, 5425
  - biotechnology 2373
  - *Brassica napus,* rape 7323
  - *Brassica oleracea,* cabbages 641
  - *Cajanus cajan* 1689
  - *Cocos nucifera* 13151
  - crops 2374
    - reviews 1390
  - *Cucumis sativus* 720
  - *Gossypium* 2083
  - grain legumes 1689
  - *Hebe andersonii* 9841
  - *Hebe franciscana* 9840
  - *Helianthus annuus* 7355
  - *Lycopersicon esculentum* 6264
  - *Miscanthus* 9267
  - *Oryza sativa* 6015, 8017, 9196, 10345
  - *Pennisetum glaucum* 1506, 10325
  - *Pinus* 9810
  - *Rhododendron* 2156
  - *Triticum aestivum* 1280
  - vegetables 1232
  - *Zea mays* 1407, 2423, 4808, 5953, 10053, 10217, 10221, 10224, 11417, 11423-11424, 12655
    - reviews 1390
- **Hybrid vigour** (*see* Heterosis)
- **Hybridization** 4
  - (*see also* Graft hybridization; Intergeneric hybridization; Interspecific hybridization; Protoplast fusion; Wide hybridization)
  - *Asparagus officinalis* 657
  - *Beta vulgaris,* sugarbeet, germplasm releases 9702
  - *Cocos nucifera* 6379
  - evolution, reviews 100
  - *Larix,* genetic markers 9823
  - *Pisum sativum,* history 2267
  - *Rosa* 2171, 11050
  - *Triticum aestivum*
    - chromosome substitution 12491
    - genetics 12491
  - *Zea mays* 11447
  - *Ziziphus mauritiana* 10824
- ***Hydnocarpus sharmae,*** taxonomy 2124
- ***Hydrocotyle sibthorpioides,*** taxonomy 12257
- **Hydrogen cyanide**
  - *Manihot esculenta* 10619
  - *Sorghum bicolor* 6955
    - combining ability 11523
- **Hydrogen peroxide**
  - *Nicotiana tabacum,* gene expression 4306
  - *Zea mays,* gene expression 5984
- **Hydroponics,** triticale 2663
- **Hydroxamic acids**
  - *Triticum aestivum* 260
  - *Zea mays* 12684
- **(*S*)-2-hydroxy-acid oxidase**
  - *Cucurbita*
    - gene expression 9562
    - nucleotide sequences 9562
- **3-Hydroxy-β-ionone,** *Phaseolus vulgaris* 7098
- **Hydroxybenzyladenosine,** *Triticum aestivum* 11322
- **Hydroxycinnamic acid,** *Zea mays,* genetics 9161
- **Hydroxycinnamyltartaric esters,** *Vitis vinifera* 5288
- **Hydroxylamine**
  - *Vigna aconitifolia* 3984
  - *Vigna unguiculata* 7141
- **Hydroxymethylbilane synthase**
  - *Pisum sativum*
    - chloroplast genetics 2904
    - polymerase chain reaction 2904
- **Hydroxymethylglutaryl-CoA reductase**
  - *Camptotheca acuminata,* gene expression 3425
  - *Nicotiana tabacum*
    - gene expression 3425
    - genetic transformation 3425
  - *Oryza sativa*
    - gene expression 11608
    - nucleotide sequences 11608
  - *Parthenium argentatum*
    - gene expression 2108
    - molecular genetics 2108
  - *Solanum tuberosum,* gene expression 10576
  - *Zea mays,* mutations 10253
- **Hydroxyphenylamines,** *Nicotiana tabacum* 2073
- **Hydroxyproline,** *Vigna radiata, in vitro* selection 7155
- **Hydroxyproline-rich proteins,** *Zea mays,* gene expression 3711
- **Hydroxypyruvate reductase,** *Cucumis sativus,* gene expression 4112
- **Hygromycin phosphotransferase**
  - *Lycopersicon esculentum*
    - gene expression 9538
    - transposable elements 9538
- **Hyoscyamine,** *Datura,* genetic variance 7548
- **Hyoscyamine (6*S*)-dioxygenase**
  - *Atropa belladonna*
    - gene expression 13382
    - genetic transformation 13382
  - *Hyoscyamus niger*
    - gene expression 13382
    - genetic engineering 13382
    - genetic transformation 13382
    - nucleotide sequences 13382
  - *Nicotiana tabacum*
    - gene expression 13382
    - genetic transformation 13382
- ***Hyoscyamus albus***
  - interspecific hybridization 11103
  - protoplast fusion 11103
- ***Hyoscyamus muticus***
  - genetic variance
    - tropane alkaloids 12288
    - yields 12288
  - interspecific hybridization 11103
  - multivariate analysis, yield components 2222
- ***Hyoscyamus muticus** cont.*
  - protoplast fusion 11103
  - sowing date 2222
- ***Hyoscyamus niger***
  - gene expression
    - histones 396, 2220
    - hyoscyamine (6*S*)-dioxygenase 13382
  - genetic engineering, hyoscyamine (6*S*)-dioxygenase 13382
  - genetic transformation
    - histones 396, 2220
    - hyoscyamine (6*S*)-dioxygenase 13382
  - nucleotide sequences
    - hyoscyamine (6*S*)-dioxygenase 13382
    - tropinone reductases 8731
- ***Hyoscyamus* (×) *Atropa***
  - intergeneric hybridization 3426
  - protoplast fusion 3426
- **Hypoxia**
  - *Acorus calamus,* gene expression 2229
  - *Oryza sativa* 1552, 1554, 12752, 12755
  - *Petunia hybrida*
    - gene expression 2199
    - molecular genetics 2199
  - *Zea mays*
    - gene expression 2199, 7955, 10288
    - molecular genetics 2199
    - nucleotide sequences 7955
- ***Hypoxylon mammatum***
  - *Populus, in vitro* selection 4350
  - *Populus tremuloides* 8609
    - genetics 8608
- **IAA**
  - *Arabidopsis thaliana,* mutations 8814
  - *Daucus carota,* genetic transformation 150
  - *Nicotiana tabacum*
    - gene expression 910, 928
    - genetic transformation 910, 928
  - *Phaseolus vulgaris* 7101
  - *Pisum sativum* 550
    - gene expression 5045
    - induced mutations 8192
  - *Zea mays,* mutations 1422
- **IBA,** *Daucus carota,* genetic transformation 150
- **Ideotypes** 11138, 12328, 12330
  - forest trees, photosynthesis 8586
  - *Gossypium herbaceum* 6514
  - *Gossypium hirsutum* 6514, 10969
  - *Hordeum vulgare,* artificial selection 5920
  - *Lens culinaris* 7124
  - *Lycopersicon esculentum* 7227
  - *Oryza sativa* 4888
  - *Papaver somniferum* 5660
  - *Phaseolus vulgaris*
    - artificial selection 6160
    - genetic resources 2889
  - *Triticum aestivum* 3615
- **Idiogram** (*see* Chromosome morphology)
- ***Ilex***
  - breeding 6560
  - gene banks 9838-9839
  - heat resistance 5622
  - interspecific hybridization 5622
  - varieties, Hopewell Grenadier 2157
- ***Ilex cornuta***
  - heat resistance 5622
  - interspecific hybridization 5622
- ***Ilex verticillata***
  - varieties
    - Alfred Anderson 2157
    - Rhett Butler 2157
    - Scarlet O'Hara 2157
- **Imazethapyr,** *Lycopersicon esculentum, in vitro* selection 3080
- **Imidazoleglycerol-phosphate dehydratase**
  - *Arabidopsis thaliana*
    - gene expression 12399
    - nucleotide sequences 12399
- **Immunology** 2333
  - *Arabidopsis thaliana,* leucyl aminopeptidase 11206
  - *Cicer arietinum* 497
  - *Glycine max*
    - disulfide isomerase 3914
    - vitronectin 8708
  - *Lilium longiflorum,* vitronectin 8708
  - *Medicago sativa,* disulfide isomerase 3914

- **Immunology** *cont.*
  - *Nicotiana tabacum,* disulfide isomerase 3914
  - *Phaseolus vulgaris,* NAD(P)H-plastoquinone-oxidoreductase 12465
  - *Pisum sativum* 497
    - fructose-bisphosphatase 8194
  - *Raphanus sativus*
    - ferredoxin-NADP$^+$oxidoreductase 1811
    - leaves 1811
    - roots 1811
  - *Solanum tuberosum*
    - glycoproteins 11814
    - gynoecium 11814
  - *Sorghum bicolor,* NAD(P)H-plastoquinone-oxidoreductase 12465
  - *Spinacia oleracea*
    - fructose-bisphosphatase 8194
    - NAD(P)H-plastoquinone-oxidoreductase 12465
  - Triticeae, prolamins 6733
  - *Vicia faba,* cytoplasmic male sterility 8166
  - *Zea mays,* NAD(P)H-plastoquinone-oxidoreductase 12465
- ***Impatiens bajurensis,*** taxonomy 1007
- ***Impatiens glauca,*** flowers 1007
- **Impatiens necrotic spot tospovirus,** *Nicotiana benthamiana,* genetic transformation 10944
- ***In vitro* culture** 121, 1184, 3556-3557, 5815, 6708, 8853, 12450
- (*see also* Anther culture; Cell culture; Embryo culture; Ovule culture; Protoplasts; Tissue culture)
  - *Abies nordmanniana* 2147
  - *Aegilops squarrosa* 2501
  - *Arachis hypogaea* 13160
  - *Asplenium nidus* 5657
  - bamboos 12283, 12304
  - *Beta vulgaris* 2036
  - bibliographies 11248
  - books 9947
  - *Brassica* 836
  - *Cajanus cajan* 8214
  - *Camellia sinensis* 13196
  - *Carica papaya* 786, 810, 13106
  - cereals 5847
  - *Cocos nucifera* 3233
  - conifers 3353
  - crops 3560, 10044
  - *Daucus carota* 1803
  - genetic resources 11249
  - genetic transformation 9998
  - *Gossypium hirsutum* 4333
  - *Hevea brasiliensis* 786
  - *Leucojum aestivum* 11081
  - *Lilium longiflorum* 2211
  - *Lilium rhodopaeum* 11081
  - *Lolium boucheanum* 4920
  - *Lolium multiflorum* 4920
  - *Lolium perenne* 4920
  - *Malus pumila* 4127
  - medicinal plants 1049, 12283
  - millets 5847
  - *Musa* 786
  - *Nicotiana* 2062
  - *Nicotiana glauca* 12133
  - *Nicotiana tabacum* 2064, 2072, 4302
  - *Olea europaea,* reviews 3234
  - ornamental plants 12283
  - *Oryza malampuzhensis* 1580
  - *Oryza sativa* 162
  - *Picea glauca* 13314
  - plant embryos 3555
  - *Populus nigra* 8610
  - *Populus trichocarpa* 8610
  - *Solanum tuberosum* 6235, 10584
  - spice plants 9927
  - statistics 12453
  - triticale 162
  - *Triticum aestivum* 2501, 3628, 3648, 12482
  - *Triticum monococcum* 2501
  - *Triticum spelta* 3628
  - *Vitis vinifera* 780
    - reviews 3162
  - *Zea mays* 162, 1211, 1417, 1435, 2680, 2686, 6889
    - books 3457
- ***In vitro* selection** 2389, 12452
  - *Alhagi kirghisorum* 5669
  - *Arachis hypogaea,* glyphosate 9691
  - bamboos, salinity 12304
  - *Beta vulgaris*
    - fodder beet 2035
    - sugarbeet 2035, 4280
      - cold resistance 8530
  - *Brassica napus*
    - rape
      - chlorsulfuron 4226
      - ergosterol 3209
      - herbicides 4226
      - *Leptosphaeria maculans* 3209-3210, 4224
  - *Capsicum annuum,* drought resistance 13027
  - cereals
    - fungi 1248
    - stress 1248
  - *Citrus limon*
    - *Deuterophoma tracheiphila* 3177
    - salinity 808
  - *Citrus* × *Poncirus,* salinity 1242
  - *Cucumis melo, Murothecium roridum* 8366
  - *Datura fastuosa* 6606
  - *Daucus carota*
    - chlorsulfuron 12948
    - herbicides 12948
  - *Dianthus caryophyllus, Fusarium oxysporum* 1012
  - *Dioscorea, Glomerella cingulata* 9490, 11852
  - diseases 5737
  - *Eucalyptus microtheca,* salinity 13266
  - *Festuca pratensis*
    - *Cochliobolus sativus* 12795
    - *Pyrenophora* 12795
  - *Fragaria ananassa*
    - *Alternaria alternata* 3151, 13082
    - *Phytophthora fragariae* 4152
    - *Tetranychus urticae* 8423
    - toxic substances 3151
  - *Fragaria moschata, Tetranychus urticae* 8423
  - *Glycine max*
    - amino acid derivatives 11276
    - salinity 11276
    - stress 11276
  - *Gossypium,* salinity 2097
  - herbicides 5747
  - *Hordeum vulgare*
    - aluminium 287
    - soil pH 287
    - toxic substances 287
  - *Ipomoea batatas*
    - carotenoids 5134
    - salinity 5135
  - *Lentinula edodes,* lignin 4505
  - *Lolium perenne,* cold resistance 11631
  - *Lycopersicon*
    - *Alternaria solani* 11894
    - pollen 11894
  - *Lycopersicon esculentum*
    - *Alternaria alternata* 3073, 13019
    - *Alternaria solani* 9552, 11894
    - *Fusarium oxysporum* 3076, 8342
    - herbicides 3080
    - imazethapyr 3080
    - pollen 11894
    - polysaccharides 8342
    - toxic substances 3073
  - *Malus pumila*
    - *Phytophthora cactorum* 3122
    - *Venturia inaequalis* 8389
  - *Manihot esculenta, Glomerella cingulata* 3024
  - *Medicago sativa*
    - germination 3921
    - oxalic acid 6061
    - salinity 3921
    - *Sclerotinia sclerotiorum* 6061
    - *Sclerotinia trifoliorum* 6061
  - *Medicago varia,* salinity 12814
  - *Musa, Fusarium oxysporum* 12009
  - *Nicotiana plumbaginifolia,* nitrate reductase 13230
  - *Nicotiana tabacum*
    - amino acid derivatives 5462, 11276
    - boron 5459
- ***In vitro* selection** *cont.*
  - *Nicotiana tabacum cont.*
    - chlorsulfuron 4316
    - drought resistance 5462
    - herbicides 4316
    - nutrients 5459
    - proline 5462
    - salinity 5462, 6496, 11276
    - stress 11276
  - *Oryza sativa* 6040
    - aluminium 1242
    - *Magnaporthe grisea* 11285
    - proline 11606
    - salinity 1242, 11285, 11606
    - *Xanthomonas oryzae* 2761
  - *Pennisetum glaucum, Sclerospora graminicola* 6007
  - *Petunia hybrida,* kanamycin 7522
  - *Pinus elliottii, Gibberella fujikuroi* 3362
  - *Pisum sativum*
    - diflufenican 7120
    - *Fusarium solani* 9406
    - glyphosate 7120
    - herbicides 7120
    - metsulfuron-methyl 7120
  - pollen, reviews 117
  - *Poncirus trifoliata,* salinity 1242
  - *Populus*
    - *Coryneum populinum* 5547
    - *Hypoxylon mammatum* 4350
  - *Prunus persica, Xanthomonas campestris* 4144
  - *Psidium guajava, Acremonium* 10818
  - reviews 123
  - salinity 31, 2304, 3476
  - *Solanum melongena,* salinity 5194
  - *Solanum tuberosum*
    - *Alternaria solani* 5113, 6241
    - anthocyanins 5100
    - *Phytophthora infestans* 2995
    - tryptophan 8254
  - stress, reviews 2387
  - temperate fruits, diseases 3109
  - *Trifolium alexandrinum*
    - oxalic acid 6061
    - *Sclerotinia sclerotiorum* 6061
    - *Sclerotinia trifoliorum* 6061
  - *Trifolium incarnatum*
    - oxalic acid 6061
    - *Sclerotinia sclerotiorum* 6061
    - *Sclerotinia trifoliorum* 6061
  - *Trifolium pratense, Sclerotinia trifoliorum* 2840
  - triticale
    - *Gibberella zeae* 2664
    - toxic substances 2664
    - vomitoxin 2664
  - *Triticum aestivum*
    - aluminium 3647
    - *Cochliobolus sativus* 223, 2531, 11335
    - cold resistance 1330
    - *Fusarium* 12463
    - *Fusarium culmorum* 4731
    - *Gibberella zeae* 1332, 2531, 4731
    - roots 8893
    - soil toxicity 3647
  - *Triticum durum,* drought resistance 12562
  - *Ulmus americana, Ceratocystis ulmi* 11001
  - *Vaccinium corymbosum,* salinity 7286
  - *Vigna radiata*
    - hydroxyproline 7155
    - mannitol 592
    - salinity 592, 7154-7155
    - stress 592
  - *Vitis*
    - chlorosis 4161
    - cold resistance 9600
  - *Vitis vinifera,* anthocyanins 5292
  - *Zea mays*
    - acetochlor 12686
    - alachlor 12687
    - cerulenin 9078
    - cytoplasmic male sterility 10250
    - drought resistance 6901
    - EPTC 1470
    - fatty acids 9078
    - glufosinate 5991
    - heat resistance 1464

***In vitro* selection** *cont.*
  Zea mays cont.
    herbicides 1470, 5991, 12686-12687
    nitrate reductase 5981
    pollen 12686
    salinity 9147
    temperature 1464
Inbreeding 86, 1084, 8763
  Beta vulgaris, sugarbeet 7377
  Boehmeria nivea 5513
  Cephalanthera 1025
  Cocos nucifera 6371, 13153
  crops, reviews 1390
  evolution 1200
  Glycine max, restriction fragment length polymorphism 6121
  Hevea brasiliensis 12175
  mathematics 6634, 8762
  Medicago 2826
  mutations 4626
  Pseudotsuga menziesii, isoenzymes 4380
  Quercus ellipsoidalis 6535
  Quercus rubra 6535
  Solanum, tuberous species 8241
  statistics 7667
  Triticum aestivum 4705
  Zea mays 5946, 5951, 9003
    mathematics 5945
    moisture content 340
    reviews 1390
    yield components 340
    sweetcorn 5949
Inbreeding depression 1206
  Begonia hirsuta 998
  Begonia semiovata 998
  Brassica napus, rape 12028
  Clarkia amoena
    flowers 12243
    stems 12243
  Gaillardia pulchella 8667
  Kalmia latifolia 2160
  Lolium rigidum 11629
  Medicago sativa 11654
  Mimulus guttatus 2172, 4413
    genetic variance 9866
    genetics 9866
  Oryza sativa, yield components 422, 424, 10374
  Pinus sylvestris 2134
  Scabiosa columbaria 12244
  Solanum tuberosum 1775
  statistics 12434
  Trifolium hirtum 10434
  Zea mays 11419
Incompatibility
  Agrocybe aegerita, genetics 4496
  Brassica juncea 8474
  Brassica napus 8474
  Brassica × Orychophragmus 13128
  Capsicum annuum 699
  Capsicum baccatum 699
  Capsicum chacoense 4088
  Capsicum pubescens 4088
  Capsicum tovarii 4088
  Eichhornia paniculata 4468
  Erythronium albidum 4443
  Erythronium americanum 4443
  genetics 11235
  Ipomoea batatas 622
  Petunia hybrida 5649
  reviews 114
India
  Indian Agricultural Research Institute, reports 2249
  National Bureau of Plant Genetic Resources, reports 1068, 1072
  Sugarcane Breeding Institute, reports 2248, 7566
Indigofera elandsbergensis, taxonomy 11693
Indigofera hendecaphylla, taxonomy 7069
Indigofera spicata, taxonomy 7069
Indoleacetate-lysine synthetase
  Solanum tuberosum
    gene expression 10570
    genetic transformation 10570
Induced mutations 102, 1186
  Abelmoschus esculentus, fruits 6292
  Antirrhinum majus
    colour 6580
    flowers 6580
    Puccinia antirrhini 3410
Induced mutations *cont.*
  Apium graveolens
    growth period 6257
    height 6258
  Arabidopsis thaliana 2355, 3506, 10015-10016, 12412
    abnormal development 7643, 11215
    abscisic acid 7651
    acetolactate synthase 10018
    N-acetyl glucosaminyl transferase 79
    acyl-CoA desaturase 1154
    anthers 11215
    chloroplasts 5783, 7646
    colour 8815
    coronatine 10030
    cytochrome *f* 4594
    desiccation 81
    development 5782, 10030
    dormancy 7643
    fatty acids 7652
    fusicoccin 2361
    gamma radiation 10014
    glycans 79
    growth regulators 7651
    lipids 7652
    male sterility 7636, 10030, 11215
    Meloidogyne incognita 5788
    methyl jasmonate 10030
    nucleocytoplasmic interaction 11211
    photosynthesis 4594
    plant embryos 3524
    pollen 11215
    Pseudomonas syringae 10030
    seeds 81, 7643
    shoots 12422
    temperature 12422
    valine 10018
  Arachis hypogaea 4252
    yield components 7358
  Avena sativa, height 5933
  Boehmeria nivea 2105
  Bougainvillea
    chlorophyll 2163
    variegation 2163
  Brassica campestris
    sarson
      Alternaria 1941
      yield components 1941
  Brassica juncea
    glucosinolates 3204
    linolenic acid 3204
    reviews 5359
  Brassica napus, rape, oils 12047
  Capsicum annuum
    β-carotene 1848, 4095
    colour 1848, 4095
    fruits 1848, 4095
    germination 11899
    sterility 11899
    yield components 11899
  Chamomilla recutita
    flowers 1042
    yield components 1042
  Cicer arietinum 6108
    chlorophyll 7127
    morphology 7127
    nitrogenase 6202
    yield components 6202
  Citrullus lanatus 11912
  Citrus, seedlessness 6326
  Citrus sinensis, seedlessness 797, 10806
  Coleus rotundifolius, yield components 11857
  Coprinus bilanatus, enzymes 4507
  Corchorus olitorius, height 6526
  Coriandrum sativum 6607
  Coronilla, 3-nitropropionic acid 494
  Crataegus 3129
  Crataegus pinnatifida
    fruits 10741
    ornamental value 10741
  crops 1228, 5832
    diseases 6656
    history 2375
  Crossandra infundibuliformis, yield components 2164, 7504
  Crotalaria juncea
    chromosome number 961
    chromosome pairing 961
  Cyamopsis tetragonoloba, chlorophyll 3991
Induced mutations *cont.*
  Dendranthema
    corolla 9835
    leaves 9835
  Dendranthema morifolium 2177
  Dianthus
    colour 4428
    flowers 4428
  fatty oil plants, oils 9658
  Gerbera 1069
  Glycine max 2855, 10449, 10474, 10478, 11701
    chlorophyll 7081
    fatty acids 9354
    nodulation 3948
    oils 1709
    proteins 1709
    yield components 7081, 12854
  Gossypium
    seedlings 10965
    seeds 10965
  Gossypium hirsutum 944, 9739
    fruits 10966
  Helianthus annuus 846
  Hibiscus sabdariffa 5514
  history 5796
  Hordeum vulgare 2590, 4758
    chlorophyll 3576, 4761, 5910, 10166-10167
    chloroplasts 4761
    dihydrokaempferol 4-reductase 3673
    Erysiphe graminis, history 1371
    growth period 5904
    history 2375
    internodes 278
    lysine 12617
    naked grain 4760
    nitrate reductase 4759
    proteins 4759
    tissue culture 8959
    yield components 4755, 10168
    yields 4759
  Ipomoea batatas, stems 9486
  Juglans regia 9639
  Lantana depressa
    corolla 9835
    leaves 9835
  Lens culinaris 1743, 6108
    chlorophyll 7121
    chromosome pairing 7121
    fasciation 562
    habit 563
    height 563
    yield components 1745
  Linum usitatissimum
    flax
      development 7425
      height 7425
    linseed, linolenic acid 6355
  Lotus corniculatus
    leghaemoglobin 8122
    nitrogen fixation 8122
  Lycopersicon esculentum, Fulvia fulva 1844, 7231, 8341
  Malus pumila 1069, 10719
  Medicago
    cleistogamy 2826
    flowering 2826
    flowers 2826
    self compatibility 2826
  Medicago sativa, senescence 1655
  Melilotus alba, chlorophyll 6090
  Musa 6318
    Fusarium oxysporum 6321
    growth period 6319
  Nicotiana plumbaginifolia
    nitrate reductase 13230
    phytochrome 7396
  Nicotiana tabacum, ribulose-bisphosphate carboxylase activase 8557
  Oryza sativa 1519, 6025, 9224, 11578, 12749
    cold resistance 12760
    endosperm 12736
    fertility 12760
    glutelins 4893
    growth period 414
    height 1551
    morphology 6977
    nitrate reductase 416
    photoperiodism 414

Induced mutations *cont.*
  Oryza sativa cont.
    plant embryos 12736
    prolamins 4893
    quality 6989
    repetitive DNA 8001
    ribosomal DNA 8001
    starch 6989
    stems 6978
    sterility 1551
    vivipary 12734
    yield components 1567, 6971, 10361
  Pachyrhizus erosus
    proteins 1814
    starch 1814
  Paeonia mlokosevitschii, flowers 5630
  Phaseolus vulgaris 1069, 5017
    colour 1724
    flowers 1724
    nodulation 8179
    Uromyces appendiculatus 5038
  Pinus sylvestris 3354
  Pisum sativum 6108
    albumins 556
    determinate and indeterminate habit 8192
    habit 10519
    IAA 8192
    iron 8195
    leaves 10519
    legumin 556
    male sterility 1733, 11752
    nitrogen fixation 5056-5057
    nodulation 5056, 7116, 11761, 12898
    seeds 7109
    source sink relations 8195
    starch 7109
    translocation 8195
    vicilin 556
    waxes 10519
  Plantago ovata, yield components 1040
  Pleurotus ostreatus, cellulose 4501
  Prunus avium 5250
  Prunus cerasus 1069
  Prunus persica, growth period 8408
  reviews 103, 11176
  Rosa
    corolla 9835
    leaves 9835
  Rosa hybrida, flowers 996
  Secale cereale
    chlorophyll 6731
    height 2653
  Sesbania rostrata
    growth period 491, 1681
    photoperiodism 491
  Solanum melongena, streptomycin 5193
  Solanum nigrum, antibiotics 7540
  Solanum tuberosum
    anthocyanins 1788
    mechanical damage 4009
    plant disorders 4009
    starch 2969
  Sorghum bicolor 6919
    cork 6931
    drought resistance 11529
    epidermis 6931
    male sterility 6925
    waxes 6931
  temperate fruits 7246
  Tradescantia
    androecium 12256
    colour 12256
    plant hairs 12256
  Trifolium pratense, Sclerotinia trifoliorum 2841
  Trigonella foenum-graecum 11690
  triticale
    chlorophyll 3576, 6731
    yield components 8988
  Triticum aestivum 2462-2463, 3599, 5863, 5865, 8875, 10084-10085, 11313
    chlorophyll 3576, 6731
    enzymes 8895
    Gibberella zeae 1332
    growth period 12485
    inflorescences 4684, 4697, 10098
    male sterility 1288-1289
    seedlings 8895
    seeds 8895

Induced mutations *cont.*
  Triticum aestivum cont.
    yield components 4684, 5872, 8894
  Triticum durum, reviews 5864
  Triticum monococcum
    height 3620
    spikelets 3620
  Vicia faba 6108
    convicine 5014
    flowers 6148
    fruits 6148
    growth period 6148
    height 136
    morphology 6147
    seeds 6148
    vicine 5014
  Vicia sativa, determinate and indeterminate habit 2843
  Vigna aconitifolia
    chlorophyll 3984
    morphology 3984
  Vigna mungo, yield components 1766-1767
  Vigna radiata, yield components 1766
  Vigna sublobata, yield components 1766
  Vigna unguiculata
    growth period 7141
    yield components 7141
  Zea mays 2677, 11447
    cell division 9067
    DNA 9067
    endosperm 9067
    inflorescences 7926
    leaves 7926
    5-methyltryptophan 2683
  Zingiber officinale 2230
    chlorophyll 3431
  Zinnia elegans
    flowers 7513
    morphology 7513
Inflorescences
  Aegilops 7712
  Astragalus adsurgens 9314
  Cocos nucifera, mutations 13153
  Danthonia linkii, artificial selection 3897-3898
  Danthonia richardsonii, artificial selection 3897-3898
  Elymus spicatus 1634
  gene expression 11243
  Gramineae, evolution 3899
  Helianthus annuus 7343
  Hordeum 7712
  Hordeum agriocrithon, artificial selection 3672
  Hordeum spontaneum, artificial selection 3672
  Hordeum vulgare 2588, 6840, 11387-11388
    artificial selection 3672
    back mutations 2589, 2591, 2612
    genetics 2589, 2591, 2612, 2616, 3679
    mutations 2589, 2591, 2596, 2612, 2616
  Lotus corniculatus, mutations 1673
  Ornithogalum dubium 11080
  Ornithogalum thyrsoides 11080
  Oryza sativa, genetics 1548, 1557, 2749
  Paspalidium rarum 3899
  Solanum indicum, genetics 4078
  Solanum melongena, genetics 4078
  Sorghum bicolor 12697
    genetic variance 354
  Triticum 7712
  Triticum aestivum
    artificial selection 6750
    genetic transformation 11310
    genetics 10100
    induced mutations 4684, 4697, 10098
  Triticum durum, genetics 7766
  Vicia faba 5003
  Zea 7948
    gene expression 10264
  Zea mays 7948, 11456-11457, 11476, 11478
    epistasis 12672
    evolution 10263
    gene expression 2681, 10264
    gene location 7926, 7934
    genetics 12672-12673

Inflorescences *cont.*
  Zea mays cont.
    induced mutations 7926
    mutations 7934, 9077, 12672
    babycorn 3755
Information processing 4526
Infrared radiation
  Gossypium hirsutum 10966
  Zea mays 1427
Inga unica, taxonomy 13287
Inhibitor genes
  Aegilops × *Triticum*
    colour 10096
    glumes 10096
    plant hairs 10096
    waxes 10096
  Triticum aestivum
    colour 10096
    glumes 10096
    plant hairs 10096
    waxes 10096
Injuries 12450
  Arabidopsis thaliana, gene expression 7658
  Helianthus annuus, gene expression 8498
  Lycopersicon esculentum
    gene expression 12997, 13014-13015
    molecular genetics 13015
    mutations 4064
  Petroselinum crispum, gene expression 8744
  Petunia hybrida, gene expression 6583
  Phaseolus vulgaris, gene expression 11747
  Populus deltoides
    gene expression 974
    molecular genetics 974
  Populus trichocarpa
    gene expression 974
    molecular genetics 974
  Salix viminalis 2121
  Solanum tuberosum 1795
    gene expression 10590
    genetic transformation 10590
    molecular genetics 10590
    somaclonal variation 1792
  Trifolium subterraneum, gene expression 12816
Inopus rubriceps, Saccharum officinarum 3264
Insects
  Brassica napus, rape 6349
  Cajanus cajan 7137
  Cicer arietinum 6117, 8142
  crops 37, 1243, 2315, 3483, 10057
    bibliographies 1118
    books 13416
    genetic transformation 5746
  Fragaria ananassa, genetic transformation 4120
  genetic engineering 2316, 4551
  Gossypium
    genetic engineering 2348
    genetic transformation 5746
  Gossypium hirsutum, genetic engineering 6523
  Ipomoea batatas 3030
  Lathyrus sativus 8142
  Lens culinaris 6117, 8142
  Lycopersicon esculentum 13021
    genetic engineering 2348
  Lycopersicon pimpinellifolium 13021
  Malus pumila 3123
    genetic transformation 4120
  Medicago sativa, germplasm releases 9290
  Nicotiana tabacum 2077
    genetic transformation 8571
  Oryza sativa 1601, 10389
  Pelargonium hortorum 4406
  Pharbitis purpurea, natural selection 4433
  Phoenix dactylifera 1920
  Pisum sativum 6117, 8142
  Populus angustifolia 7448
  Populus fremontii 7448
  Pyrus 3127
  Solanum berthaultii, restriction fragment length polymorphism 8282
  Solanum tuberosum 11844

Insects *cont.*
- *Solanum tuberosum cont.*
  - restriction fragment length polymorphism 8282
- *Triticum aestivum* 5893, 12580
- *Vicia faba* 6117, 8142
- *Vigna radiata,* restriction fragment length polymorphism 594
- *Vigna unguiculata* 586
- *Zea mays* 6902
  - combining ability 3752
  - heterosis 3752

Interchanges (*see* Chromosome translocation)

Interference
- crossing over 4627
- evolution 8827
- mathematics 4627

Interferon
- *Oryza sativa*
  - gene expression 6968
  - genetic transformation 6968

Intergeneric hybridization
- *Aegilops squarrosa* 7707
- *Aegilops* × *Secale* 1382, 2654
- *Aegilops* × *Triticum* 194, 1281, 1284, 1299, 2461, 2532, 2535, 2548, 2559, 2572, 3609, 4682, 4698, 4746, 5871, 6763, 7752-7753, 7784, 7796, 7810, 7826, 7830, 8939, 10078, 10096-10097, 10115, 10131, 10133, 10138, 10140, 11369, 12470, 12496, 12501, 12582-12583
- *Agropyron* × *Secale* 2650
- *Agropyron* × *Secale* × *Triticum* 4654
- *Agropyron* × *Triticum* 170, 191, 1279, 12539, 12578
- *Atropa* (×) *Hyoscyamus* 3426
- *Atylosia* × *Cajanus* 577, 1758, 7135, 8213
- *Bambusa* × *Dendrocalamus* 11116
- *Brassica* 1938
- *Brassica napus,* rape 12037
- *Brassica* × *Diplotaxis* 13131
- *Brassica* × *Moricandia* 3198
- *Brassica* × *Orychophragmus* 13128
- *Brassica* × *Raphanus* 828, 840, 3993, 12037
- *Brassica* × *Sinapis* 828, 3199, 7324, 13126
- *Cajanus* × *Atylosia* 577, 1758, 7135, 8213
- *Cajanus* × *Flemingia* 1758
- *Cajanus* × *Rhynchosia* 1758, 6211
- *Celmisia* × *Olearia* 4404
- *Ceratobium* × *Eleutheroglossum* 13376
- *Ceratobium* × *Phalaenanthe* 13376
- *Citrus* × *Poncirus* 1242, 3176, 4179, 8447, 12016
- *Citrus* × *Severina* 13095
- *Coryanthes* × *Stanhopea* 9891
- crops 1239
- *Cydonia* × *Pyrus* 3108
- *Cyphanthera* × *Duboisia* 1050
- *Cyphanthera* × *Grammosolen* 1050
- *Dasypyrum* × *Triticum* 189, 197, 2460, 2467, 12492
- *Dendrocalamus* × *Bambusa* 11116
- *Dendrocalamus* × *Sinocalamus* 11116
- *Duboisia* × *Cyphanthera* 1050
- *Duboisia* × *Grammosolen* 1050
- *Dupontia* × *Poa* 9246
- *Eleutheroglossum* × *Ceratobium* 13376
- *Eleutheroglossum* × *Phalaenanthe* 13376
- *Elymus* × *Hordelymus* 12800
- *Elymus* × *Hordeum* 4926, 10169
- *Elymus* × *Leymus* 4926, 8077
- *Elymus* × *Psathyrostachys* 8077
- *Elymus* × *Secale* 8873
- *Elymus* × *Triticum* 170, 242, 1287, 1293, 2472, 2523, 3536, 3601, 3888, 4686, 4688-4689, 4727, 4926, 5861, 5866, 5892, 6748, 7755, 7796, 8873, 10083, 10133, 11357, 12498
- *Erianthus* × *Saccharum* 6439-6440
- *Festuca* × *Lolium* 459, 2785, 2788, 2793, 2797, 3875, 3880, 11634, 12787
- *Festuca* × *Vulpia* 3881
- *Flemingia* × *Cajanus* 1758
- *Grammosolen* × *Cyphanthera* 1050
- *Grammosolen* × *Duboisia* 1050

Intergeneric hybridization *cont.*
- *Hordelymus* × *Elymus* 12800
- *Hordelymus* × *Hordeum* 12800
- *Hordelymus* × *Secale* 12800
- *Hordeum* 4659
- *Hordeum* × *Elymus* 4926, 10169
- *Hordeum* × *Hordelymus* 12800
- *Hordeum* × *Leymus* 7036, 11649, 12619
- *Hordeum* × *Secale* 2649, 2651, 4653
- *Hordeum* × *Triticum* 158, 289, 2430, 2593, 3578, 3597, 3600, 5881, 6730, 6854, 7696, 8869, 8887
- *Hyoscyamus* (×) *Atropa* 3426
- *Lablab* × *Macrotyloma* 6227
- *Lenophyllum* 9903
- *Lens* × *Vicia* 2842
- *Leymus* × *Elymus* 4926, 8077
- *Leymus* × *Hordeum* 7036, 11649, 12619
- *Leymus* × *Psathyrostachys* 11649
- *Leymus* × *Triticum* 1316
- *Lolium* × *Festuca* 459, 2785, 2788, 2793, 2797, 3875, 3880, 11634, 12787
- *Macrotyloma* × *Lablab* 6227
- *Miscanthus* × *Saccharum* 2008
- *Moricandia* × *Brassica* 3198
- *Olearia* × *Celmisia* 4404
- Orchidaceae 9892
- *Orychophragmus* × *Brassica* 13128
- *Oryza* × *Porteresia* 2731
- *Oryza* × *Triticum* 7704
- *Phaius* × *Spathoglottis* 8710
- *Phalaenanthe* × *Ceratobium* 13376
- *Phalaenanthe* × *Eleutheroglossum* 13376
- *Poa* × *Dupontia* 9246
- *Poncirus* × *Citrus* 1242, 3176, 4179, 8447, 12016
- *Porteresia* × *Oryza* 2731
- *Psathyrostachys* × *Elymus* 8077
- *Psathyrostachys* × *Leymus* 11649
- *Psathyrostachys* × *Triticum* 11316
- *Pyrus* × *Cydonia* 3108
- *Raphanus* × *Brassica* 828, 840, 3993, 12037
- *Rhynchosia* × *Cajanus* 1758, 6211
- *Saccharum* × *Erianthus* 6439-6440
- *Saccharum* × *Miscanthus* 2008
- *Saccharum* × *Sorghum* 6440
- *Secale* 4659
- *Secale* × *Aegilops* 1382, 2654
- *Secale* × *Agropyron* 2650
- *Secale* × *Agropyron* × *Triticum* 4654
- *Secale* × *Elymus* 8873
- *Secale* × *Hordelymus* 12800
- *Secale* × *Hordeum* 2649, 2651, 4653
- *Secale* × triticale 10211
- *Secale* × *Triticum* 170, 190, 198, 246, 293, 298-299, 1336, 2488, 2532, 3596, 3598, 3625, 3698, 3703, 8870, 8873, 8991, 8995, 11343, 11413, 12470, 12648
  - genetics 3596
- *Severina* × *Citrus* 13095
- *Sinapis* × *Brassica* 828, 3199, 7324, 13126
- *Sinocalamus* × *Dendrocalamus* 11116
- *Sorghum* × *Saccharum* 6440
- *Spathoglottis* × *Phaius* 8710
- *Stanhopea* × *Coryanthes* 9891
- *Taeniatherum* × *Triticum* 7745
- *Thinopyrum* × *Triticum* 1637, 11650
- *Tripsacum* × *Triticum* 3607
- *Tripsacum* × *Zea* 3732, 7906, 7946, 7969
- triticale 4659
- triticale × *Secale* 10211
- triticale × *Triticum* 1389, 2475, 4725, 5842, 5941, 6872, 7716, 8868, 8886, 8994
- Triticeae 7707
- Triticeae × *Triticum* 7707
- *Triticum* 4659
- *Triticum aestivum* 3598, 7707
  - genetics 3596
- *Triticum* × *Aegilops* 194, 1281, 1284, 1299, 2461, 2532, 2535, 2548, 2559, 2572, 3609, 4682, 4698, 4746, 5871, 6763, 7752-7753, 7784, 7796, 7810, 7826, 7830, 8939, 10078, 10096-10097, 10115, 10131, 10133, 10138, 10140, 11369, 12470, 12496, 12501, 12582-12583

Intergeneric hybridization *cont.*
- *Triticum* × *Agropyron* 170, 191, 1279, 12539, 12578
- *Triticum* × *Agropyron* × *Secale* 4654
- *Triticum* × *Dasypyrum* 189, 197, 2460, 2467, 12492
- *Triticum* × *Elymus* 170, 242, 1287, 1293, 2472, 2523, 3536, 3601, 3888, 4686, 4688-4689, 4727, 4926, 5861, 5866, 5892, 6748, 7755, 7796, 8873, 10083, 10133, 12498
- *Triticum* × *Hordeum* 158, 289, 2430, 2593, 3578, 3597, 3600, 5881, 6730, 6854, 7696, 8869, 8887
- *Triticum* × *Leymus* 1316
- *Triticum* × *Oryza* 7704
- *Triticum* × *Psathyrostachys* 11316
- *Triticum* × *Secale* 170, 190, 198, 246, 293, 298-299, 1336, 2488, 2532, 3596, 3598, 3625, 3698, 3703, 8870, 8873, 8991, 8995, 11343, 11413, 12470, 12648
- *Triticum* × *Taeniatherum* 7745
- *Triticum* × *Thinopyrum* 1637, 11650
- *Triticum* × *Tripsacum* 3607
- *Triticum* × triticale 1389, 2475, 4725, 5842, 5941, 6872, 7716, 8868, 8886, 8994
- *Triticum* × Triticeae 7707
- *Triticum* × *Zea* 3600, 3610, 7740, 7744
- *Vicia* × *Lens* 2842
- *Vulpia* × *Festuca* 3881
- *Zea* × *Tripsacum* 3732, 7906, 7946, 7969
- *Zea* × *Triticum* 3600, 3610, 7740, 7744

International Board for Plant Genetic Resources, reports 3440

International Center for Agricultural Research in the Dry Areas, Cereal Improvement Program, reports 4513

International Rice Research Institute, reports 8750

Internodes
- *Bouteloua curtipendula* 4933
- *Eragrostis* 4933
- grasses 4933
- *Hordeum vulgare*
  - genetics 278
  - induced mutations 278
- *Nicotiana tabacum,* germplasm releases 12149
- *Oryza sativa* 421, 1555
  - genetics 1590
- *Panicum coloratum* 4933
- *Pisum sativum,* mutations 6185, 9403
- *Trifolium repens*
  - genetics 9298
  - germplasm releases 9298

Interspecific hybridization
- *Abelmoschus* 10713
- *Abelmoschus esculentus* 10713
- *Abies concolor* 5600
- *Abies grandis* 5600
- *Acacia* 5554
- *Acacia auriculiformis* 9793, 13278
- *Acacia mangium* 9793, 13278
- *Acer rubrum* 13332
- *Acer saccharinum* 13332
- *Aconitum delphinifolium* 5645
- *Actinidia arguta* 5305
- *Actinidia chinensis* 8431
- *Actinidia deliciosa* 5303, 5305, 8431
- *Actinidia eriantha* 5303
- *Aegilops* 2571
- *Aegilops squarrosa* 7707
- *Agropyron cristatum* 3884
- *Agropyron mongolicum* 3884
- *Allium* 10634
- *Allium cepa* 633, 5146, 10638, 11861
- *Allium chinense* 633
- *Allium fistulosum* 633, 11861
- *Allium nutans* 5146, 10638
- *Alnus glutinosa* 8615
- *Alnus incana* 8615
- *Amaranthus* 1622
- *Arachis* 12091
- *Arachis batizocoi* 3236
- *Arachis cardenasii* 4264
- *Arachis correntina* 3236
- *Arachis duranensis* 7359
- *Arachis hypogaea* 4264, 7359
- *Arachis stenosperma* 7359

Interspecific hybridization *cont.*
Arbutus canariensis 5615
Arbutus unedo 5615
Artemisia absinthium 13396
Artemisia arborescens 13396
Asclepias speciosa 963, 7429
Asclepias syriaca 963, 7429
Avena fatua 1378
Avena nuda 6866
Avena sativa 1378, 12632
Avena sterilis 12632
Avena wiestii 6866
Beta 2039
Beta maritima 899, 5433, 10908, 10913, 13189
Beta vulgaris 10913, 13189
  sugarbeet 899, 5433, 10908
Betula humilis 7439
Betula nana 7439
Betula pendula 7439
Betula pubescens 7439
Betula tortuosa 7439
Brassica 1938, 1956
Brassica adpressa 7324, 12037
Brassica alboglabra 4219, 6343, 12036
Brassica bourgeaui 3197
Brassica campestris 1950, 3197, 3199, 4209, 4219, 6341, 6343, 7326, 13130
  sarson 13133
  toria 1949
  turnip rape 3200, 5356
Brassica carinata 10838, 12035, 12039, 12041, 13135
Brassica chinensis 6342
Brassica cretica 3197
Brassica juncea 1942, 1950, 7326, 8474, 8476, 9672, 12040, 13130, 13135
Brassica montana 3197
Brassica napus 1950, 7326, 8474, 9672, 10838
  rape 1942, 1949, 3199-3200, 5356, 6342-6343, 7324, 12035, 12039-12041, 13130, 13135
Brassica nigra 3199, 7326
Brassica oleracea 4209, 6341, 7326
  Brussels sprouts 6342
  cabbages 7324
  kale 6251, 6343, 7324
Brassica oxyrrhina 8476
Brassica pekinensis 6251
Brassica tournefortii 1942, 12036
Bromus 1642
Buddleja davidii 992
Buddleja fallowiana 992
Cajanus cajan 6211, 7135
Cajanus cajanifolius 6211
Cajanus platycarpa 6211
Calamagrostis canescens 7037
Calamagrostis stricta 7037
Camellia 2158
Camellia chrysantha 11037
Camellia japonica 11037
Capsicum 701, 707
Capsicum annuum 699, 709, 5199, 11900
Capsicum baccatum 699
Capsicum chacoense 711, 4088
Capsicum chinense 711, 5199, 11900
Capsicum frutescens 709, 711
Capsicum pubescens 4088
Capsicum tovarii 4088
Cicer arietinum 1747, 6201
Cicer echinospermum 1747, 6201
Cicer reticulatum 6201
Cichorium endivia 1826
Cichorium intybus 1826
Citrus 795, 3176, 10807, 13096
Citrus aurantiifolia 3173
Citrus reticulata 794, 3176
Citrus sinensis 794, 3173
Coffea 6468, 8533
crops 1239
Cucumis anguria 1866
Cucumis longipes 1866
Cucumis sativus 3097
Cucurbita ficifolia 13038
Cucurbita foetidissima 13038
Cucurbita maxima 13038
Cuphea lanceolata 6433
Cuphea viscosissima 6433
Cynodon dactylon 9859-9860

Interspecific hybridization *cont.*
Cynodon transvaalensis 9859-9860
Datura 2226, 7548
Datura candida 2226
Datura suaveolens 2226
Dendrobium 8710
Dendrocalamus hamiltonii 11116
Dendrocalamus latiflorus 11116
Drosera 4419
Duboisia leichhardtii 2218
Duboisia myoporoides 2218
Elaeis guineensis 852, 13147
Elaeis oleifera 852, 13147
Elymus 3885-3886, 4927, 7033, 9259, 10404
Elymus cacuminus 8079
Elymus caucasicus 4927
Elymus curvifolius 2802
Elymus elongatus 2802
Elymus farctus 2802
Elymus geniculata 2802
Elymus glaucissimus 7033
Elymus novae-angliae 10406
Elymus parviglumis 4927
Elymus patagonicus 7033
Elymus retroflexus 8079
Elymus semicostatus 3885
Elymus spicatus 8079
Elymus trachycaulus 10406
Elymus tschimganicus 7033
Epiphyllum anguliger 9904
Eriostemon myoporoides 12234
Eriostemon verrucosus 12234
Erythronium albidum 4443
Erythronium americanum 4443
Eucalyptus 5528, 5533, 13258
Eucalyptus camaldulensis 9777, 13263, 13265
Eucalyptus globulus 5533
Eucalyptus grandis 13263, 13265
Eucalyptus tereticornis 9777, 13265
Eucalyptus urophylla 13265
Euterpe edulis 12992
Euterpe oleracea 12992
Fagopyrum cymosum 3866
Fagopyrum esculentum 3866
Fragaria 11996
genetics 11235
Glycine 509
Glycine formosana 510, 10479
Glycine gracilis 10473, 11724, 12835, 12839, 12841
Glycine max 504, 510, 520, 3943, 3946, 10473, 10479, 11724, 12835-12836, 12839, 12841
Glycine soja 504, 3946, 12836, 12839
Glycine tomentella 520, 3943
Gossypium 939, 3322, 10964
Gossypium anomalum 6512
Gossypium arboreum 946, 4329, 6512, 6520, 7414, 12160
Gossypium areysianum 7411
Gossypium barbadense 946, 2084, 3318, 4330, 5499, 8573, 9748
Gossypium bickii 6520
Gossypium herbaceum 4329, 7414
Gossypium hirsutum 943, 946, 2084, 3318, 4330, 5499, 6520, 7411, 8573, 9748, 10964, 12160
Gossypium klotzschianum 943
Gossypium raimondii 12160
Gossypium thurberi 943
Gossypium turneri 6512
Grevillea banksii 2168
Grevillea bipinnatifida 2168
Guizotia abyssinica 6432
Guizotia scabra 6432
Guizotia schimperi 6432
Gypsophila manginii 9868
Gypsophila paniculata 9868
Helianthus annuus 4231, 5342, 5384, 6361, 7335, 7342, 11854
Helianthus argophyllus 6361
Helianthus rigidus 7342
Helianthus tuberosus 4231, 5384, 11854
Hibiscus cannabinus 960, 4343
Hibiscus radiatus 4343
Hibiscus sabdariffa 960
Hordeum 7841
Hordeum agriocrithon 3672, 12588

Interspecific hybridization *cont.*
Hordeum bulbosum 276, 2595, 2634, 5843, 11382, 12595
Hordeum depressum 7841
Hordeum murinum 8955
Hordeum pusillum 8955
Hordeum spontaneum 3672, 4780, 7837
Hordeum vulgare 276, 2595, 2634, 3672, 4780, 5843, 7837, 11382, 12588, 12595
Hyoscyamus albus 11103
Hyoscyamus muticus 11103
Ilex 5622
Ilex cornuta 5622
Iris brevicaulis 8704, 11078
Iris fulva 2200, 4445, 8704, 11078
Iris hexagona 2200, 4445, 8704, 11078
Juglans 9645
Juglans major 9648
Juglans nigra 9648
Juglans regia 9648
Kniphofia leucocephala 11070
Kniphofia pauciflora 11070
Lactuca saligna 7204
Lactuca sativa 7204
Larix decidua 4379, 5602, 6554-6555, 13320-13321
Larix laricina 5602
Larix leptolepis 4379, 5602, 6554-6555, 13320-13321
Larix lyallii 8648
Larix occidentalis 8648
Lathyrus cassius 12258
Lathyrus chloranthus 13353
Lathyrus chrysanthus 13353
Lathyrus hirsutus 12258
Lathyrus odoratus 12258, 13353
Lens culinaris 3971, 7123, 11767
Lens ervoides 3971, 7123
Lens orientalis 3971, 7123, 11767
Leucaena 8127
Leucaena diversifolia 4966, 9313, 9317, 12203
Leucaena esculenta 9313
Leucaena lanceolata 9313
Leucaena leucocephala 4966, 9313, 9317, 12203
Leucaena pallida 9313, 9317, 12203
Leymus 8077
Lilium 13372
Liriodendron chinense 980
Liriodendron tulipifera 980
Lolium boucheanum 9251
Lolium multiflorum 6067, 9251
Lolium perenne 6067, 9251
Lycopersicon 6273, 7232
Lycopersicon cheesmanii 13017
Lycopersicon chilense 5183, 9553
Lycopersicon chmielewskii 677, 4069, 8335
Lycopersicon esculentum 669, 676-677, 1840, 3056, 4069, 5179, 5183, 6273, 6282, 7218, 7232, 8335, 8337, 8351, 9553, 10656-10657, 10683, 11236, 11881, 11888, 11891-11892, 11895, 12995, 13009, 13012, 13017-13018
Lycopersicon hirsutum 677, 6282, 10657, 13012
Lycopersicon pennellii 676, 1840, 3056, 8337, 10656, 11888, 11895, 12995, 13009, 13018
Lycopersicon peruvianum 669, 5179, 5183, 7218, 7232, 8351, 10683, 11881
Lycopersicon pimpinellifolium 10657, 11891-11892
Lythrum 13357
Lythrum salicaria 8676, 13357
Lythrum virgatum 8676
Magnolia grandiflora 5617, 7499
Magnolia sieboldii 5617, 7499
Magnolia tripetala 7499
Magnolia virginiana 7499
Malus 10726
Malus floribunda 1891
Malus pumila 1891, 10725-10726
Manihot esculenta 10621
Manihot glaziovii 10621
Medicago ciliaris 12811
Medicago intertexta 12811

Interspecific hybridization *cont.*
Medicago noeana 1654
Medicago rugosa 1654, 9283
Medicago sativa 1654, 9283
Medicago scutellata 1654, 9283
Miscanthus sacchariflorus 9267
Miscanthus sinensis 9267
Momordica charantia 11940
Momordica dioica 11940
Morus alba 9611
Morus indica 9611
Nepenthes muluensis 13381
Nepenthes tentaculata 13381
Nicotiana alata 6484
Nicotiana benthamiana 3313
Nicotiana debneyi 6497, 7403, 9731
Nicotiana eastii 5454
Nicotiana glauca 4304, 10927, 12154-12155
Nicotiana glutinosa 6497, 7403, 8550, 9731, 9734
Nicotiana knightiana 13215-13216
Nicotiana langsdorffii 6484, 10927, 12154-12155
Nicotiana megalosiphon 7398-7399
Nicotiana plumbaginifolia 4297
Nicotiana raimondii 13215-13216
Nicotiana sylvestris 4297
Nicotiana tabacum 3313, 4304, 5454-5455, 7398-7399, 8550, 9734, 13215-13216
Ocimum gratissimum 2234
Ocimum viride 2234
Oenothera 12255
Oenothera erythrosepala 12255
Oenothera hookeri 12255
Origanum onites 2237
Origanum vulgare 2237
Ornithogalum dubium 11080
Ornithogalum thyrsoides 11080
Oryza australiensis 3814, 8016, 8057
Oryza minuta 6033, 6985
Oryza ridleyi 3814
Oryza rufipogon 1546, 10362, 11544
Oryza sativa 1546, 6033, 6985, 8016, 8057, 10362, 11544
Paspalum cromyorrhizon 2811
Paspalum dilatatum 2811
Paspalum indecorum 2811
Paspalum laxum 2811
Passiflora 12020
Passiflora edulis 12020
Paulownia fortunei 12196
Paulownia kawakamii 12196
Pelargonium patulum 7500
Pelargonium tomentosum 7500
Pennisetum flaccidum 6958
Pennisetum glaucum 3786, 6960, 9187, 11540
Pennisetum mezianum 6958
Pennisetum purpureum 3786, 6960, 11540
Pennisetum squamulatum 9187
Penstemon 5640
Penstemon cobaea 9863
Penstemon triflorus 9863
Petunia hybrida 8701
Petunia variabilis 8701
Phaseolus acutifolius 11743
Phaseolus coccineus 8177-8178, 12874
Phaseolus polyanthus 8177-8178
Phaseolus vulgaris 8177-8178, 11743, 12874
Phyllanthus 13109
Picea engelmannii, restriction fragment length polymorphism 13309
Picea glauca, restriction fragment length polymorphism 13309
Picea sitchensis, restriction fragment length polymorphism 13309
Pinus 5581, 13258
Pinus attenuata 6552
Pinus banksiana 5581
Pinus caribaea 8751
Pinus celakovskiorum 5580
Pinus contorta 5581
Pinus elliottii 8751
Pinus massoniana 9810
Pinus mugo 5580
Pinus radiata 6552
Pinus sylvestris 2132, 5580

Interspecific hybridization *cont.*
Pinus thunbergii 9810
Pinus uncinata 2132
Pisum fulvum 3968
Pisum sativum 3968
Populus 8602
Populus alba 2117, 3344, 5539, 5548, 6538, 8599, 13270, 13273
Populus angustifolia 975
Populus balsamifera 12189-12190
Populus canadensis 3345, 12188, 13272
Populus deltoides 3345, 5544, 8607, 12188, 12191, 13270, 13272
Populus fremontii 975
Populus grandidentata 2117, 6538
Populus hopeiensis 3344
Populus maximowiczii 3345
Populus nigra 3345, 5539, 5544, 8610, 13270
Populus simonii 12188, 13272
Populus tremula 5548, 8599, 13270, 13273
Populus tremuloides 5548
Populus trichocarpa 3345, 8607, 8610, 12189-12191, 13270
Potentilla 5621
Prunus 745
  plums 3130
Prunus armeniaca 745, 11957
Prunus cerasifera 1897, 3134
Prunus cerasus 13062
Prunus domestica 11957
Prunus dulcis 10759, 11981
Prunus fruticosa 13062
Prunus persica 1897, 3130, 10759, 11981
Prunus salicina 3130
Prunus spinosa 1897, 3130
Prunus ussuriensis 3134
Pyrus bretschneideri 5237
Pyrus communis 5237
Quercus agrifolia 2115-2116
Quercus ellipsoidalis 6535-6536
Quercus ilex 6537
Quercus rotundifolia 6537
Quercus rubra 6535-6536
Quercus wislizenii 2115-2116
reviews 98
Rhododendron canescens 5616
Rhododendron flammeum 5616
Ribes canadensis 1901
Ribes nigrum 1901
Rosa 5309
Rosmarinus eriocalyx 9939
Rosmarinus officinalis 9939
Rosmarinus tomentosus 9939
Rubus idaeus 760
Rubus occidentalis 760
Saccharum officinarum 877, 4271, 5408, 6449
Saccharum spontaneum 877, 4271, 5408, 6449
Secale cereale 296
Secale vavilovii 296
Senecio jacobaea 5629
Senecio nemorensis 5629
Sesamum indicum 10889
Sesamum schinzianum 10889
Sesbania goetzei 6100
Sesbania keniensis 6100
Sesbania sesban 6100
Solanum 2990, 2997, 13023
  tuberous species 7168, 8244, 8265, 9460
Solanum acaule 2974, 10571, 12941
Solanum aculeatissimum 4473
Solanum americanum 5664
Solanum berthaultii 1799, 2954, 8282
Solanum brevidens 3998, 6230, 8268, 10602, 12933
Solanum bulbocastanum 6244, 11810, 12932
Solanum chacoense 607, 5091, 8240, 9459, 11819
Solanum commersonii 8259, 10572
Solanum demissum 2965, 2990, 5091, 8277
Solanum dulcamara 11811
Solanum ehrenbergii 1782
Solanum incanum 689
Solanum indicum 4078

Interspecific hybridization *cont.*
Solanum iopetalum 2990
Solanum khasianum 4473
Solanum megistacrolobum 12941
Solanum melongena 685, 689, 4078, 13023
Solanum nigrum 11811
Solanum phureja 607, 2961-2962, 2968, 4001, 5092, 8239-8240, 8255, 8261, 9459
Solanum pinnatisectum 12932
Solanum polyadenium 2961
Solanum sisymbriifolium 685
Solanum spegazzinii 2961, 5117, 12946
Solanum stenotomum 2968
Solanum stoloniferum 1782, 2965, 8277
Solanum tarijense 5091
Solanum torvum 2954
Solanum tuberosum 1799, 2954, 2961-2962, 2968, 2974, 2990, 2997, 3998, 4001, 5086, 5091-5092, 5117, 6230, 6244, 7168, 8239, 8244, 8255, 8259, 8261, 8265, 8268, 8277, 8282, 9459, 10571-10572, 10602, 11810-11811, 11819, 12932-12933, 12946
Solanum vernei 2968
Solanum villosum 5664
Sorghum bicolor 1483, 2413, 4857, 4860, 6934, 7975, 9172, 10305, 11526
Sorghum dochna 11526
Sorghum halepense 6934, 10305
Sorghum propinquum 7975
Sorghum sudanense 1483, 2413, 4857, 4860, 9172, 11526
Spiranthes lacera 1027
Spiranthes romanzoffiana 1027
Syringa 3372
Tagetes erecta 12246
Tagetes patula 12246
Thymus baeticus 3433
Thymus hyemalis 3433
Thymus pulegioides 9932
Thymus zygis 3433, 9932
Trifolium repens 11673
Trifolium xerocephalum 11673
Triticeae 7707
Triticum 3655
Triticum aestivum 201, 2462, 2474, 4685, 5895, 7707, 7749, 7756, 7796, 7798, 7806, 7812, 7816, 7818, 8885, 10059, 10097, 10104, 10115, 10133, 11327, 11358, 12493
Triticum araraticum 8885
Triticum boeoticum 6801
Triticum dicoccoides 10115, 12573
Triticum dicoccum 6783, 10097
Triticum durum 4685, 6783, 7796, 7798, 12573
Triticum monococcum 201, 6801, 7749, 7798
Triticum spelta 5895, 7812, 10104, 11358, 12493
Triticum timopheevii 7756, 7806, 7816, 8885, 10059, 11327
Ulmus 5553
Vaccinium angustifolium 3146, 11993-11994
Vaccinium ashei 13075
Vaccinium corymbosum 3146, 11993-11994, 13075
Vaccinium darrowii 7284
Vaccinium elliottii 7284
Vaccinium macrocarpon 11990
Vaccinium vitis-idaea 11990
Vigna mungo 1765
Vigna radiata 1765
Viola canina 11060
Viola persicifolia 11060
Vitis 9601
Vitis amurensis 781-783
Vitis rotundifolia 8430
Vitis vinifera 781-783, 8430, 9601
  seedlessness 12001
Volvariella diplasia 2244
Volvariella volvacea 2244
Zantedeschia 9867
Zea diploperennis 9053, 9066
Zea luxurians 9053, 9066
Zea mays 1409, 2684, 9053, 9064, 9066
Zea mexicana 1409, 2684

Interspecific hybridization *cont.*
Zea parviglumis 2684, 9053, 9066
Zea perennis 9064
Introgression, *Fragaria* 11996
Inulin, *Helianthus tuberosus* 11855
Inversions (*see* Chromosome translocation)
Iodoacetic acid, *Nicotiana tabacum* 8549
Ionopsidium savianum
heterochromatin 7509
nuclei 7509
Ioxynil, *Nicotiana tabacum,* genetic transformation 7405
Ipomoea
chromosome number 4019
polyploidy 4019
restriction fragment length polymorphism, taxonomy 3029
Ipomoea batatas 1806
ADP-glucose pyrophosphorylase 9485
α-amylase 9487
β-amylase 9487
artificial selection 12952
breeding 621, 3025, 6228, 11268
β-carotene 11851
carotenoids 9488
cell culture 5134
colour 9488
flowers 1806
forage 8290
gamma radiation 9486
gene banks 5132
gene expression, β-amylase 11850
genetic resources 5132, 5829, 6228, 12953
genetic transformation 5133
genetics, isoenzymes 1807
genotype environment interaction, yield components 7181
growth period 3026
heritability
Ceratocystis fimbriata 3027
yield components 3027
in vitro selection
carotenoids 5134
salinity 5135
incompatibility 622
induced mutations, stems 9486
insects 3030
isoenzymes 10626
leaf fall 12955
molecular genetics, β-amylase 9484
nucleotide sequences
β-amylase 11850
superoxide dismutase 4018
nutritive value 11851
plant composition 8291, 10627
protoplasts 623, 12956
quality 9487, 10627, 12957
random amplified polymorphic DNA, variety classification 11849
stability, statistics 9489
starch 8291, 9485, 12957
sugars 12957
taxonomy 1806
tissue culture 1808, 4020, 10626, 10628
variety trials 10623-10624
viruses 10628
yield components 3028
yield correlations 3028
varieties 621
Tainung70 12954
Yizi-306 3025
Ipomoea horsfalliae
anthers 10625
development 10625
Ipomoea peruviana, taxonomy 1809
Ipomoea trifida 1806
genetics, isoenzymes 1807
Ipomopsis aggregata, chloroplast genetics, taxonomy 4430
Ipomopsis arizonica, chloroplast genetics, taxonomy 4430
Ipomopsis tenuituba, chloroplast genetics, taxonomy 4430
Iris
catechol oxidase 1022
peroxidases 1022
proteins 1022
random amplified polymorphic DNA, evolution 8704
tissue culture 2203
Iris brevicaulis
chloroplast genetics 11078
interspecific hybridization 8704, 11078
random amplified polymorphic DNA 11078
Iris ensata, anthocyanins 9884
Iris fulva
chloroplast genetics 2200, 11078
cytoplasmic inheritance 2200
interspecific hybridization 2200, 4445, 8704, 11078
outcrossing 4445
random amplified polymorphic DNA 11078
Iris hexagona
chloroplast genetics 2200, 11078
cytoplasmic inheritance 2200
interspecific hybridization 2200, 4445, 8704, 11078
outcrossing 4445
random amplified polymorphic DNA 11078
Iris nelsonii, random amplified polymorphic DNA, evolution 8704
Iris pallida, tissue culture 4449
Iris spuria, taxonomy 11082
Iron
Arachis hypogaea 5402
genetics 7365
Citrus 13100
Glycine max 8160
artificial selection 2868, 9365
Hordeum vulgare, gene expression 12592
Malus pumila 7252
Oryza sativa 6992
Pisum sativum, induced mutations 8195
Saccharum officinarum 2018
Secale cereale, gene location 12477
Trifolium subterraneum 9301
Triticum aestivum 8913
Vigna unguiculata 9430
Irregular bearing
Carya illinoinensis 13117
Cocos nucifera 6397
Malus pumila 5230
Irrigation
Brassica napus, rape 5374
Cocos nucifera 6400
Glycine max 9010
Hordeum vulgare 4764, 4768
Lens culinaris 5060
Linum usitatissimum, linseed, heterosis 3216
Lycopersicon esculentum 1842
Pennisetum glaucum 9188
Zea mays 9010
Isocitrate dehydrogenase
Abies alba
clines 4378
genetics 4378
Capsicum annuum, polymorphism 703
Eleusine
gene dosage 3791
gene expression 3791
Rubus idaeus, genetics 1899
Rubus neglectus, genetics 1899
Isocitrate lyase
Brassica napus
rape
gene expression 8477
genetic engineering 8477
Cucumis sativus, gene expression 10709
Nicotiana tabacum, genetic transformation 6478, 8477
Ricinus communis
gene expression 6478
genetic engineering 6478
Isoenzymes
Abies alba
clines 4378
genetic distance 8643
genetic variation 7492, 8643
genetics 4378
Abies borisii-regis, genetic variation 7492
Abies bornmuelleriana, genetic variation 7492
Abies cephalonica, genetic variation 7492
Abies mariesii, genetic variation 12222
Abies pinsapo, genetics 7491
Isoenzymes *cont.*
Acer saccharum
genetic variation 2042-2043
polymorphism 7382
Aegilops 6776, 7760
Aegilops speltoides 7760
Aegilops squarrosa 7760
genetic variation 2573
Agaricus, polymorphism 4502
Agaricus bisporus
linkage 5683
polymorphism 1067
Agrostis
polymorphism 9271
variety classification 9271
Allium, genetic markers, reviews 145
Allium fistulosum
genetic distance 12967
polymorphism 12967
Allium longicuspis 636
Allium sativum 636
Allium trifoliatum 12969
Annona cherimola
polymorphism 8453
variety classification 8453
Arachis, genetic variation 4254
Arachis pintoi, polymorphism 4248
Asparagus officinalis, genetics 1824
Avena barbata, genetic variation 12636
Avena byzantina, genetic variation 5929
Avena hirtula, genetic variation 12636
Avena sativa, genetic variation 5929, 7866
Avena sterilis
genetic distance 3689
genetic variation 5929, 5932
polymorphism 5932
Bealia mexicana, genetic variation 6071
Beta 6460
genetic variation 9709
Beta adanensis 2034
Beta macrocarpa 2034
Beta maritima 2034
linkage 10908
Beta patula 2034
Beta vulgaris
beetroots 10913
fodder beet 10913
sugarbeet, genetic markers, reviews 145
Bothriochloa ischaemum 10418
Brassica
genetic markers, reviews 145
Chinese cabbages 12975
Brassica alboglabra, genetic variation 11865
Brassica campestris, turnips, genetic variation 11865
Brassica napus, rape, gene expression 4208
Brassica oleracea 12970
broccoli, genetic variation 11865
cabbages, genetic variation 11865
cauliflowers, genetic variation 11865
kale, genetic variation 11865
Brassica × Sinapis 13126
Bromus tectorum, genetic variation 1643
Capsicum, polymorphism 702
Capsicum annuum
genetic markers 701
polymorphism 703
Capsicum baccatum, genetic markers 701
Capsicum chacoense, genetic markers 701
Castanea, genetic variation 13119
Castanea sativa, genetic variation 5339-5340
Cephalanthera, genetic variation 1025
Cereus peruvianus 2216
Chamaecyparis obtusa
clonal variation 991
genetic variation 991, 13326
Chrysopogon gryllus 10418
Cichorium intybus, polymorphism 6260
Citrus 805, 5316, 9627, 13098
Citrus reticulata 13098
Citrus sinensis 13098
Cocos nucifera, genetic variation 3232
Coffea 5441
Coffea arabica 5441
Coffea canephora 4282

Isoenzymes *cont.*
  Convallaria majalis, polymorphism 4447
  Coreopsis integrifolia, genetic variation 13352
  Coreopsis pulchra, genetic variation 13352
  Coreopsis rosea, genetic variation 13352
  crops 2343
  Cryptomeria japonica, genetic variation 5609, 7496
  Cunninghamia lanceolata, genetic variation 13324
  Cupressus sempervirens, genetics 2150
  Cypripedium, genetic variation 9890
  Cypripedium calceolus, polymorphism 4455
  Dendranthema 7512
  Deschampsia cespitosa, population genetics 465, 11653
  Dianthus caryophyllus 3394
  Dictyophora indusiata 8749
  Dioscorea cayenensis, genetics 12959
  Dioscorea rotundata, genetics 12959
  Elymus hispidus 1287
  Elymus pungens, genetic variation 1633
  Elymus repens, genetic variation 1633
  Elymus × *Triticum*
    chromosome addition 1287
    gene location 1293
  Erianthus × *Saccharum* 6440
  Eucalyptus urophylla
    genetic variation 13262
    outcrossing 13262
  Eurya japonica, genetic variation 13283
  Eustoma grandiflorum, genetics 4424
  Fagopyrum cymosum 3866
  Fagopyrum esculentum 3866
    genetic variation 11614-11615
  Fagus sylvatica
    genetic variation 8597, 13269
    genetics 3343
  Faidherbia albida, genetic variation 5560, 9802
  Festuca 1632, 10402
  Festuca hyperborea 10402
  Festuca pratensis
    genetic distance 3878
    genetic variation 3878
  forest trees 7437
  Fortunella 9627
    genetic variation 13099
  genetic markers 6687
  genetic variation 6687, 8829
  genetics 11230
  Glycine gracilis 1704
  Glycine max 1704, 2873, 4988
    gene expression 4989
    genetic markers 11704
    polymorphism 11698
    restriction fragment length polymorphism 4989
  Glycine soja 1704
    genetic variation 513
    polymorphism 11698
  Glycine tomentella 12837
  Gossypium hirsutum, genetic variation 4338
  Gossypium lanceolatum, genetic variation 4338
  Helianthus annuus
    genetic variation 1965
    polymorphism 8497
  Hevea, genetic variation 12176
  Hevea brasiliensis, genetic variation 12175
  Hibiscus 960
  Hippophae neurocarpa, genetic variation 4164
  Hippophae rhamnoides, genetic variation 4164
  Hippophae tibetana, genetic variation 4164
  Hordeum spontaneum, polymorphism 7840
  Hordeum vulgare 7689
    genetic markers, reviews 145
    genetics 1357, 1359, 2607
  Ipomoea batatas 10626
    genetics 1807
  Ipomoea trifida, genetics 1807
  Juglans, genetic markers 9645

Isoenzymes *cont.*
  Juglans regia
    genetic distance 9646
    genetic variation 9646
    genetics 9644, 9647
  Larix, genetic markers 9823
  Larix decidua, genetic variation 5601
  Lens, linkage 11767
  Lens culinaris
    gene mapping 8204
    linkage 8204
  Leucaena leucocephala, chloroplast genetics 13280
  Liquidambar, genetic distance 13284
  Liriodendron tulipifera, genetic variation 11007
  Lolium
    genetic distance 3878
    genetic variation 3878, 4919
  Lolium perenne
    genetic variation 456, 3877
    multivariate analysis 3877
  Lolium (×) *Triticum* 192
  Lupinus albus, genetic variation 3927
  Lycopersicon esculentum
    gene location 8337
    genetic markers 8337
  Lycopersicon pennellii
    gene location 8337
    genetic markers 8337
  Malus, genetics 4125
  Malus floribunda
    genetics 1891
    polymorphism 1891
  Malus pumila 5234, 9576
    genetic variation 4126
    genetics 1891, 4125
    polymorphism 1891
    somaclonal variation 4126
  Mangifera indica 13103
  Medicago sativa 11664
    genetic variation 8102
    molecular genetics 3915
  Melaleuca alternifolia, genetic variation 9936
  Metrosideros polymorpha, genetic variation 7454
  Microcitrus 9627
  Mimulus guttatus, genetics 999
  Mimulus micranthus, genetics 999
  Muhlenbergia argentea, genetic variation 6071
  Muhlenbergia lucida, genetic variation 6071
  Musa, genetic variation 788
  Nicotiana megalosiphon 7398-7399
  Nicotiana suaveolens 12142
  Nicotiana tabacum 7398-7400, 12142
  Nothofagus, genetic distance 11019
  Onobrychis viciifolia 490
  Oryza minuta, polymorphism 6033
  Oryza sativa 1555
    gene location 6031
    polymorphism 6033
    restriction fragment length polymorphism 6031
  Pachycereus pringlei, genetics 4463
  Panicum infestum, genetics 367
  Panicum maximum, genetics 367
  Panicum trichocladum, genetics 367
  Pennisetum glaucum 9187
    genetic variation 7985
  Pennisetum squamulatum 9187
  Penstemon, genetic markers 5640
  Phalaenopsis 12274
    polymorphism 9894
  Phaseolus vulgaris 3963, 9388
    genetic variation 9384
  Phoenix dactylifera, multivariate analysis 7309
  Picea abies
    genetic variation 12220
    genetics 3364
    linkage 3364
  Picea glauca, genetic variation 5593
  Picea jezoensis, genetic variation 8642
  Picea orientalis
    genetic variation 3365
    genetics 3365
    linkage 3365
  Pinus contorta, genetic variation 6549

Isoenzymes *cont.*
  Pinus densiflora, linkage 5583
  Pinus edulis, genetic variation 11025
  Pinus leucodermis
    genetics 4365
    linkage 4365
  Pinus pumila
    genetic distance 4363
    genetic variation 4363
  Pinus sibirica
    gene flow 4364
    genetic distance 4364
    genetic variation 4364
  Pinus sylvestris
    genetic variation 984, 11022, 13300-13301
    genetics 13297
  Pisum sativum 1738, 2908
  Pleurotus, polymorphism 4502
  Pleurotus cornucopiae, polymorphism 1067
  Poncirus 9627
  Poncirus trifoliata 13098
  population genetics 1178
  Populus grandidentata, genetic variation 8601
  Populus interamericana, clonal variation 6540
  Populus tremuloides
    genetic variation 8601
    genetics 7446
    linkage 7446
    restriction fragment length polymorphism 7446
  Primula veris, polymorphism 1000
  Prosopis velutina, genetic variation 13282
  Prunus armeniaca 3132
  Prunus cerasus, genetics 13062
  Prunus fruticosa, genetics 13062
  Prunus persica
    gene mapping 7279
    linkage 7279
    random amplified polymorphic DNA 7279
  Pseudotsuga menziesii
    genetic distance 4380
    genetic variation 9825
    inbreeding 4380
    polymorphism 9825
  Puccinellia, genetic variation 7043
  Puccinellia howellii, genetic variation 7043
  Puccinellia lemmonii, genetic variation 2819
  Puccinellia parishii, genetic variation 2819
  Quercus ellipsoidalis, genetic variation 6535
  Quercus laevis, genetic variation 8594
  Quercus macrocarpa, polymorphism 9784
  Quercus rubra, genetic variation 6535
  Rosa 4410
  Rubus idaeus, polymorphism 9590
  Rubus vestitus 9591
  Saccharum, multivariate analysis 2009
  Saccharum × *Sorghum* 6440
  Salix exigua, genetics 3346
  Secale cereale
    gene location 7871
    genetic markers, reviews 145
    genetics 5938
    linkage 5938
  Secale × *Triticum*
    chromosome translocation 2488
    genetic variation 2488
  Sesamum indicum, polymorphism 13174
  Silene uniflora, genetics 2192
  Silene vulgaris, genetics 2192
  Solanum chacoense 5091
    genetic variation 7160
  Solanum demissum 5091
  Solanum incanum, linkage 689
  Solanum melongena, linkage 689
  Solanum phureja
    gene expression 2962
    genetic variation 7160
  Solanum tarijense 5091
  Solanum tuberosum 2343, 5091
    gene expression 2962

Isoenzymes *cont.*
  Solanum tuberosum cont.
    genetic markers, reviews 145
    genetic variation 7160
    somaclonal variation 9466
  Stemonoporus oblongifolius, genetic variation 8614
  Stylosanthes, genetic variation 487
  Taiwania cryptomerioides
    genetic distance 4383
    genetic variation 4383
  Taxus
    polymorphism 12227
    variety classification 12227
  Torreya taxifolia, genetic variation 11033
  Trigonella ruthenica 490
  Triticum 6776
  Triticum aestivum 1287, 1302, 6788
    genetic markers, reviews 145
    genetic variation 2488
  Triticum boeoticum 7760
  Triticum monococcum 7760
  Triticum turgidum, genetic variation 11324
  Triticum urartu 7760
  Tulipa, genetic variation 13373
  Tulipa gesneriana 4452
  Vaccinium 13078
  Vicia faba
    genetic variation 3956, 5004
    genetics 3955, 8167
  Vigna, genetic distance 9428
  Vigna mungo, genetic markers 1765
  Vigna radiata, genetic markers 1765
  Vigna unguiculata, genetic distance 9428
  Zea mays 9112
    gene expression 9099
    genetic distance 4837
    genetic markers, reviews 145
    genetic variation 11464, 11478
    sweetcorn 5949
  Zizania aquatica, heterozygosity 3868
  Zizania palustris 8058
    heterozygosity 3868
Isopentenyl transferase
  Lycopersicon esculentum
    genetic engineering 3053
    genetic transformation 3053
  Nicotiana plumbaginifolia
    gene expression 10939
    genetic transformation 937, 10939
  Salix viminalis, genetic transformation 5550
Isoproturon
  triticale 3666
  Triticum aestivum 3666
  Triticum durum 3666
Italy, Experimental Institute for Cereal Cultivation, reports 2247
Ixia acaulis, taxonomy 4450
Jacquinia, taxonomy 2125
Japan, National Institute of Agrobiological Resources, reports 2246
Jasminum auriculatum
  flowers 1059
  morphology 1059
Jasminum banlanense, taxonomy 2238
Jasminum fruticans, heterostyly 5619
Jatropha integerrima, tissue culture 6565
Johnsongrass mosaic potyvirus, *Pennisetum glaucum* 2722
Juglans
  genetic markers, isoenzymes 9645
  interspecific hybridization 9645
  phenolic compounds 3183
  variety trials 10827
  Xanthomonas campestris 3183
Juglans cinerea, tissue culture 5337
Juglans major
  genetics, cherry leaf roll nepovirus 9648
  interspecific hybridization 9648
Juglans nigra
  genetics, cherry leaf roll nepovirus 9648
  interspecific hybridization 9648
  pollen germination 1923
  temperature 1923
Juglans regia
  abscission 10828
  Amyelois transitella 8458
  breeding 4132, 9639
  buds 9643
Juglans regia *cont.*
  chilling requirement 8455
  chromosome number 5335
  Cydia pomonella 8458
  endosperm 5335
  flowers 10828
  fruiting 5336, 9643
  fruits 8457
  genetic distance, isoenzymes 9646
  genetic resources 9637-9639
  genetic transformation, *Bacillus thuringiensis* 8458
  genetic variation, isoenzymes 9646
  genetics
    cherry leaf roll nepovirus 9648
    isoenzymes 9644, 9647
  growth period 8455
  habit 5336
  induced mutations 9639
  interspecific hybridization 9648
  morphology 10829
  multivariate analysis 10830
  plant composition 8456
  plant introduction 4132
  Plodia interpunctella 8458
  pollen germination 1923
  pollination 10828
  precocity 5336
  quality 8457
  seasonal growth 5336
  temperature 1923
  variety classification 10830
  variety trials 9640
  yield components 10829
  varieties 9641
    Malizia 9642
Juglans sieboldiana, genetic resources 6293
Juglans subcordiformis, genetic resources 6293
Juniperus
  pests 2169
  Phomopsis 2169
Juniperus communis
  rooting capacity 11034
  seeds 11034
Juniperus davurica, essential oils 13398
Juniperus excelsa
  random amplified polymorphic DNA 8657
  taxonomy 8657
  terpenoids 8657
Juniperus monosperma
  population genetics 9827
  terpenoids 9827
Juniperus osteosperma
  population genetics 9827
  terpenoids 9827
Juniperus procera
  random amplified polymorphic DNA 8657
  taxonomy 8657
  terpenoids 8657
Juniperus virginiana, DNA 8865
Justicia santelisiana, taxonomy 6574
Kaempferia galanga, tissue culture 11102
Kafirin, *Sorghum bicolor* 358
Kalanchoe blossfeldiana, tissue culture 6598
Kalmia latifolia
  inbreeding depression 2160
  sexual reproduction 2160
Kanamycin
  Petunia hybrida
    gene expression 7522
    in vitro selection 7522
  Solanum melongena, genetics 9556
  Zea mays
    genetic transformation 10227
    genetics 10227
Karwinskia humboldtiana, embryo culture 8735
Karyotype (*see* Chromosome morphology)
Kengyilia, taxonomy 3902
3-Ketoacyl-acyl carrier protein synthase III, *Spinacia oleracea,* nucleotide sequences 6254
Kielmeyera coriacea, tissue culture 5565
Kinabaluchloa, taxonomy 7558
Kinases
  Arabidopsis thaliana, nucleotide sequences 12408
Kinases *cont.*
  Brassica alboglabra, molecular genetics 4030
  Nicotiana glauca, gene expression 12154
  Nicotiana langsdorffii, gene expression 12154
Kniphofia leucocephala
  interspecific hybridization 11070
  taxonomy 11070
Kniphofia pauciflora, interspecific hybridization 11070
Kochia prostrata, forage 12779
Kochia scoparia
  chlorsulfuron 8061
  herbicides 2784, 3869, 8060-8061
  sulfonylureas 2784
Koeleria
  chromosome morphology 2810
  taxonomy 8093
Koeleria glauca, taxonomy 8092
Koeleria grandis, taxonomy 8092
Koeleria macrantha, taxonomy 8092, 12806
Koeleria pyramidata, taxonomy 12806
Krapovickasia macrodon, taxonomy 11069
Labiatae
  pollen 2165
  pollination 5673
  taxonomy 2165
Lablab purpureus
  breeding 5082
  genetic resources 496
  heat sums 496
  multivariate analysis, yield components 3992
  photoperiodism 496
  yield components 496
Lablab* × *Macrotyloma, intergeneric hybridization 6227
Lactate dehydrogenase, *Oryza sativa,* molecular genetics 391
Lactuca
  Erysiphe cichoracearum 8314
  genetics, *Bremia lactucae* 7204
Lactuca perennis, lettuce mosaic potyvirus 8315
Lactuca saligna
  Bremia lactucae 7204
  interspecific hybridization 7204
Lactuca sativa
  Aphidoidea 9529
  cadmium 4046
  gene expression, transposable elements 4044
  gene mapping 12981
    Plasmopara lactucae-radicis 8313
  genetic transformation 653
    pathogenesis-related proteins 4305
    transposable elements 4044
  genetics
    Bremia lactucae 3051, 8312, 10650
    Pemphigus bursarius 8312
  genotype environment interaction
    Bremia lactucae 7203
    Pemphigus bursarius 7203
  germination 654
  growth regulators 654
  habit 1069
  interspecific hybridization 7204
  lettuce big-vein virus 8316
  lettuce mosaic potyvirus 8315
  linkage
    Bremia lactucae 7203, 8312
    Pemphigus bursarius 7203, 8312
  mitochondrial genetics, NADH dehydrogenase 8311
  Nasonovia ribisnigri 9529
  Olpidium brassicae 8316
  Pemphigus bursarius 3052, 9529
  quality 4045, 5157
  random amplified polymorphic DNA 12981
    Bremia lactucae 3051
  restriction fragment length polymorphism 12981
  Rhizomonas suberifaciens 9528, 12982
  temperature 654
  toxic substances 4046
  variety trials 651, 12979
  varieties
    Blush 12980
    EMPASC357-Litoral 652

- ***Lactuca sativa*** *cont.*
  - varieties *cont.*
    - Glacier 12982
    - Ice Cube 12980
    - Mini-Green 12980
    - Misty Day 12982
- ***Lactuca tatarica,*** lettuce mosaic potyvirus 8315
- ***Lagenaria siceraria,*** heterosis, yield components 4114
- ***Lagerstroemia***
  - pollen 11039
  - taxonomy 11039
- **Lamarckism** 1171
- **Laminin receptor,** *Arabidopsis thaliana,* nucleotide sequences 4586
- ***Lamprothyrsus,*** evolution, apomixis 469
- ***Lantana depressa***
  - gamma radiation 9835
  - induced mutations
    - corolla 9835
    - leaves 9835
- ***Laodelphax striatella,*** *Oryza sativa,* genetics 12761
- ***Lapageria rosea,*** tissue culture 4393
- ***Lapeirousia laxa***
  - polyploidy 12268
  - tissue culture 12268
- ***Larix***
  - clonal variation, rooting capacity 13321
  - genetic markers
    - hybridization 9823
    - isoenzymes 9823
  - heritability, rooting capacity 13321
  - mitochondrial genetics, cell culture 13320
  - tissue culture 7438
- ***Larix decidua***
  - embryo culture 6554-6555
  - genetic transformation 2148
  - genetic variation, isoenzymes 5601
  - haploidy 2148, 5603, 8650
  - hybrid seed production 9823
  - interspecific hybridization 4379, 5602, 6554-6555, 13320-13321
  - mixoploidy 8650
  - polyploidy 5603
  - protoplasts 13322
  - tissue culture 4379, 5603, 8650, 12224
- ***Larix eurolepis***
  - genetic transformation 2148
  - haploidy 2148
  - hybrid seed production 9823
  - tissue culture 12224
- ***Larix laricina***
  - genetic transformation, *Agrobacterium rhizogenes* 983
  - heritability
    - habit 9824
    - height 9824
  - interspecific hybridization 5602
  - rooting capacity 983
  - tissue culture 983
- ***Larix leptolepis***
  - embryo culture 6554-6555
  - genetic transformation 2148
  - haploidy 2148
  - hybrid seed production 9823
  - interspecific hybridization 4379, 5602, 6554-6555, 13320-13321
  - pollen 8647
  - tissue culture 4379
- ***Larix lyallii***
  - cones 8648
  - interspecific hybridization 8648
- ***Larix occidentalis***
  - cones 8648
  - interspecific hybridization 8648
  - stems 8649
  - water balance 12223
- **Laser radiation** (*see* Lasers)
- **Lasers**
  - *Glycine max* 10477
  - *Gossypium hirsutum* 944, 10966
  - *Hordeum vulgare* 5910
  - *Triticum aestivum* 12485
  - *Vicia sativa* 2843
- ***Lasioptera berlesiana,*** *Olea europaea* 7357
- **Late embryogenesis abundant proteins,** *Vigna radiata,* gene expression 11783
- ***Lathyrus***
  - chemotaxonomy 6102
  - chromosome morphology 10444
  - chromosome number 10444
  - flavonoids 6102
  - molecular genetics, ribosomal DNA 6098
  - restriction fragment length polymorphism, ribosomal DNA 6097
- ***Lathyrus annuus***
  - flavonols 7511
  - flowers 7511
- ***Lathyrus cassius***
  - chromosome pairing 12258
  - DNA hybridization 12258
  - interspecific hybridization 12258
  - taxonomy 12258
- ***Lathyrus chloranthus,*** interspecific hybridization 13353
- ***Lathyrus chrysanthus,*** interspecific hybridization 13353
- ***Lathyrus hirsutus***
  - chromosome pairing 12258
  - DNA hybridization 12258
  - interspecific hybridization 12258
  - taxonomy 12258
- ***Lathyrus inconspicuus,*** taxonomy 12824
- ***Lathyrus latifolius***
  - gene flow 488
  - outcrossing 488
- ***Lathyrus ochrus***
  - flavonols 7511
  - flowers 7511
- ***Lathyrus odoratus***
  - chromosome pairing 12258
  - DNA hybridization 12258
  - flavonols 7511
  - flowers 7511
  - interspecific hybridization 12258, 13353
  - taxonomy 12258
- ***Lathyrus sativus***
  - amylase inhibitors 493
  - breeding 8124
  - DNA 4963
  - insects 8142
  - molecular genetics
    - chromosome morphology 2376
    - ribosomal DNA 6099
  - neurotoxins 4978
  - quality 493
  - tannins 493
  - tissue culture 6099
- ***Lathyrus tingitanus***
  - flavonols 7511
  - flowers 7511
- **Latitude** (*see also* Geography)
  - *Pinus sylvestris* 2139
  - *Populus balsamifera* 2118
  - *Zizania aquatica* 3868
    - heterozygosity 3868
  - *Zizania palustris* 3868
    - heterozygosity 3868
- ***Lavandula,*** fatty acids 9941
- ***Lavandula angustifolia,*** plant introduction 11111
- **Lawns and turf**
  - grasses 5626
  - *Zoysia* 5627
- **Layering,** *Malus pumila* 10720
- **Lead**
  - *Pinus nigra* 6548
  - *Pinus sylvestris* 6548
- **Lead iodide,** *Glycine max* 2855
- **Lead nitrate**
  - *Arabidopsis thaliana* 10015
  - *Glycine max* 2855
- **Leaf fall**
  - *Ipomoea batatas* 12955
  - *Saccharum officinarum* 12105
- **Leaf spotting,** *Oryza sativa,* linkage 3857
- **Leafless cultivars,** *Pisum sativum* 1736
- **Leaves** 12447
  - *Abies* 8644
  - *Abies cephalonica* 8644
  - *Allium* 10638
  - *Allium cepa* 5146
  - *Allium nutans* 5146
  - *Arabidopsis thaliana* 3522
    - gene expression 11222
    - mutations 11222, 12417
  - *Arachis hypogaea,* genetics 1981
  - *Betula humilis* 7439
- **Leaves** *cont.*
  - *Brassica campestris,* turnip rape 5356
  - *Brassica juncea,* genetics 12044
  - *Brassica napus,* rape 5356
  - *Camellia sinensis* 5438, 13197
  - *Cicer arietinum,* genetics 10533
  - *Citrus* 10811
  - *Cocos nucifera* 6391
  - *Coffea arabica* 9713
  - *Cucumis,* genetics 1866
  - *Cucumis sativus* 11931
    - genetics 11932
    - mutations 11932
  - *Cucurbita argyrosperma* 6288
  - *Cynara scolymus,* somaclonal variation 12990
  - *Datura* 11104
  - *Dendranthema,* induced mutations 9835
  - *Eragrostis curvula* 9270
  - Ericaceae, genetics 12233
  - *Erythrina* 9852
  - *Eustoma grandiflorum,* heterosis 11065
  - gene expression 10464
  - genetic transformation 10464
  - *Glycine max* 7084
    - heritability 12856
  - *Glycine soja*
    - genetics 9376
    - mutations 9376
  - *Gossypium hirsutum* 6515
    - genetic markers 10954
    - genetics 3323
  - *Helianthus annuus*
    - genetic variance 7340
    - genetics 7340
    - heritability 7340
  - *Hibiscus cannabinus,* stability 4343
  - *Hibiscus radiatus,* stability 4343
  - *Lantana depressa,* induced mutations 9835
  - *Leptospermum trinervum,* multivariate analysis 9847
  - *Lolium perenne* 12788
    - genetic variance 12789
    - heritability 12789
  - *Lotus corniculatus* 10464
  - *Malus pumila* 5232
    - gene expression 1890
  - *Manihot esculenta* 7176
  - *Matthiola incana*
    - genetics 8682
    - linkage 8682
  - *Medicago sativa* 2830, 9284
    - artificial selection 2823, 2828
    - germplasm releases 11663
  - *Nicotiana sylvestris,* mutations 929
  - *Nicotiana tabacum*
    - chimaeras 7397
    - gene expression 7397
    - genetic transformation 2053, 7397
    - germplasm releases 12149
    - nucleocytoplasmic interaction 5455
  - *Nothofagus* 5575
  - *Oryza sativa* 418, 1549, 2738, 9220
    - heterosis 2745
  - *Paullinia cupana* 13111
  - *Pennisetum glaucum,* heterosis 1496
  - *Phaseolus vulgaris*
    - genetic variance 12873
    - heterosis 12873
  - *Pinus* 5581
    - multivariate analysis 5580
  - *Pinus aristata* 5587
  - *Pinus celakovskiorum,* multivariate analysis 5580
  - *Pinus chiapensis* 5585
  - *Pinus mugo,* multivariate analysis 5580
  - *Pinus ponderosa* 5584
  - *Pinus sylvestris* 9815
    - multivariate analysis 5580
  - *Piper betle* 2233
  - *Pisum sativum* 11756
    - genetics 1734, 1737-1738, 10519
    - induced mutations 10519
  - *Populus* 5543
    - somaclonal variation 12189-12190
  - *Pseudotsuga menziesii* 3366
  - *Raphanus sativus,* immunology 1811
  - *Rhododendron mucronulatum* 2161
  - *Rosa,* induced mutations 9835
  - *Saccharum* 6442

Leaves *cont.*
  Scabiosa argentea 9877
  Scabiosa tenuis 9877
  Setaria italica 10323
  Solanum tuberosum 7163-7164
  Sorghum bicolor 363, 9175
    combining ability 4862
    mathematics 1477-1478
  Thladiantha 1867
  Triticum aestivum 4721, 6752, 8890, 12505
  Triticum durum 5876, 6752
  Vitis vinifera 10789
    multivariate analysis 5287
  Zea mays 9088
    gene conversion 9011
    gene location 7901, 7905, 7926, 9038, 9086, 9094
    genetics 9086, 9094, 9097
    heterosis 1425
    induced mutations 7926
    linkage 9093
    molecular genetics 5970, 9011
    mutations 326, 5970, 7899, 9038, 9054, 9086, 9093, 10266
    penetrance 7899
    pleiotropy 9150
Lectins
  Allium ascalonicum, molecular genetics 632
  Allium cepa, molecular genetics 632
  Allium porrum, molecular genetics 632
  Artocarpus integer
    molecular genetics 4193
    nucleotide sequences 4193
  Clivia miniata
    gene expression 8703
    nucleotide sequences 8703
  crops, gene expression 1114
  Leguminosae, molecular genetics 2850
  Phaseolus vulgaris 4978, 9390
  Pisum sativum 5053
    gene expression 5044
    molecular genetics 5044, 11750
    nucleotide sequences 5042, 11750
  Vicia faba 5011
  Vigna glabrescens 1772
Leek yellow stripe potyvirus, *Allium porrum* 1069
Leersia oryzoides
  molecular genetics
    evolution 1645
    taxonomy 1645
Leersia virginica
  molecular genetics
    evolution 1645
    taxonomy 1645
Leghaemoglobin
  gene expression 10464
  genetic transformation 10464
  Glycine max
    gene expression 10464
    nucleotide sequences 10464
  Lotus corniculatus 10464
    gene expression 486, 8122, 12822
    genetic transformation 486, 12822
    induced mutations 8122
  Phaseolus, polymerase chain reaction 3959
  Psophocarpus tetragonolobus, gene expression 7157
  Sesbania rostrata
    gene expression 12822
    genetic engineering 486, 8122, 12822
Legislation 21, 2298-2299, 5722, 13418
(*see also* Breeders' rights)
  Brassica napus, rape 7322
  breeders' rights 9958
  breeding 27
  forest trees, seed production 7568
  fruit crops, history 729
  genetic engineering 6644, 9958
  genetic resources 1105, 4544
  Lycopersicon esculentum, genetic engineering 11877
  variety trials 27
Legumin
  Picea engelmannii, gene expression 7485
  Picea glauca, gene expression 7485
  Pisum sativum
    genetics 556

Legumin *cont.*
  Pisum sativum cont.
    induced mutations 556
  Vicia faba
    genetics 7096
    nucleotide sequences 9380
    polymerase chain reaction 7096
Leguminosae
  genetic resources, databases 11694
  genetic variation 8126
  mitochondrial genetics
    cytochrome-*c* oxidase 9977
    evolution 9977
  molecular genetics
    lectins 2850
    stress 6112
  nitrogen fixation, reviews 501
  nucleotide sequences, databases 11694
  Rhizobium, reviews 501
  taxonomy, databases 11694
  tissue culture 1690
Lenophyllum, intergeneric hybridization 9903
Lens
  domestication, reviews 560
  genetic resources, reviews 560
  linkage
    isoenzymes 11767
    yield components 11767
  taxonomy, reviews 560
Lens culinaris
  Ascochyta fabae 8206, 12909
  carbohydrates 564
  chloroplast genetics, evolution 7125
  chromosome morphology 1744, 3970, 6108, 11764
  cold resistance 6110
  crop density 11769
  cytology 7122
  diseases 6199-6200, 8139
    reviews 8140
  DNA 11764
  drought resistance 6111
  ethyl methanesulfonate 562, 1743, 7121
  fatty acids 12907
  fertility 7122
  flowering 5835, 9410, 11768
  fruits 9409
  fungi 6114
  Fusarium oxysporum 8206, 10528
  gamma radiation 562-563, 1743, 1745, 3970, 7121
  gene mapping, isoenzymes 8204
  genetic resources 1742, 6105, 6198, 8131
  genetics
    fasciation 562
    habit 563
    height 563
    sterility 7123
  genotype environment interaction 11769
    yields 11161
  germination 9411
  growth period 11766
  heat resistance 6110
  Heterodera ciceri 8206
  ideotypes 7124
  induced mutations 1743, 6108
    chlorophyll 7121
    chromosome pairing 7121
    fasciation 562
    habit 563
    height 563
    yield components 1745
  insects 6117, 8142
  interspecific hybridization 3971, 7123, 11767
  irrigation 5060
  linkage, isoenzymes 8204
  N-methyl-*N*-nitrosourea 1745
  multivariate analysis, yield components 12906
  mutagens 562, 1743, 1745, 7121
  Nematoda 6116, 6200
  Orobanche 8206
  pests 6199
  photoperiodism 5835, 11766, 11768
  plant embryos 3971
  pollination 12905
  proteins 5060, 7070
  Rhizobium 8205, 12908
  salinity 6111, 9412, 11770

Lens culinaris *cont.*
  seeds 11769
  shedding 9409
  Sitona 8206
  soil pH 8205
  sowing date 11766
  sterility 3971
  sterols 12907
  storage, seeds 2919
  stress 6199
  tannins 4978
  temperature 11768
  Uromyces viciae-fabae 8206
  variety trials 11765
  viruses 6115
  waterlogging 7126
  weeds 6200
  wide hybridization 561
  yield components 1742, 9410, 11765
  yield correlations 9411, 12906
  varieties, VL Masoor-4 5059
  varities, Utfala 2918
Lens ervoides
  genetics, sterility 7123
  interspecific hybridization 3971, 7123
  plant embryos 3971
  sterility 3971
Lens nigricans
  Ascochyta fabae 12909
  chloroplast genetics, evolution 7125
Lens orientalis
  genetics, sterility 7123
  interspecific hybridization 3971, 7123, 11767
  plant embryos 3971
  sterility 3971
Lens × ***Vicia,*** intergeneric hybridization 2842
Lentinula edodes
  in vitro selection, lignin 4505
  molecular genetics, taxonomy 13407
  variety classification 4504
Lentinula (×) ***Lentinus,*** protoplast fusion 2243
Lentinus (×) ***Lentinula,*** protoplast fusion 2243
Lepanthes, taxonomy 5655
Lepidagathis incurva, ornamental value 7537
Lepiota, taxonomy 3439
Leptadenia, genetic resources 7406
Leptinotarsa decemlineata
  Lycopersicon esculentum, genetics 6282
  Lycopersicon hirsutum, genetics 6282
  Solanum, tuberous species 10610
  Solanum berthaultii 11843
    restriction fragment length polymorphism 8282
  Solanum integrifolium, genetic transformation 697
  Solanum melongena, genetic transformation 697
  Solanum tuberosum 7171
    restriction fragment length polymorphism 8282
Leptospermum, taxonomy 4403
Leptospermum continentale
  flowers 9844
  sexual reproduction 9844
Leptospermum myrsinoides
  flowers 9844
  sexual reproduction 9844
Leptospermum trinervum
  multivariate analysis, leaves 9847
  taxonomy 9847
Leptosphaeria (*see also Magnaporthe*)
Leptosphaeria avenaria
  triticale 6778
  Triticum aestivum 6778
Leptosphaeria maculans
  Brassica adpressa 12037
  Brassica napus
    rape 3208, 8466, 8486, 9673-9674, 12037
      chromosome addition 10850
      in vitro selection 3209-3210, 4224
      molecular genetics 6353
      techniques 8485
  Brassica nigra
    chromosome addition 10850
    genetics 10850

Leptosphaeria maculans *cont.*
- *Raphanus raphanistrum* 12037

Leptosphaeria nodorum
- *Aegilops squarrosa* 3655
- *Aegilops* × *Triticum* 10133
- *Elymus* × *Triticum* 10133
- *Hordeum vulgare*
  - gene expression 5922
  - molecular genetics 5922
- *Secale cereale* 6874
- triticale 6778, 6874, 8996
- *Triticum* 3655
- *Triticum aestivum* 2527, 4732, 4734, 6775, 6778, 6781, 6786, 6874, 7799, 8921, 10133
  - artificial selection 12564

Lespedeza cuneata
- germination 3934
- seedlings 3934, 4965
- sowing 3934

Lesquerella fendleri
- breeding 12100
- domestication 12100

Lethals
- *Beta vulgaris,* sugarbeet, gene location 12113
- *Hordeum vulgare,* chlorophyll 2608
- *Salix viminalis,* mathematics 13275
- *Zea mays,* colour 9041

Lettuce big-vein virus, *Lactuca sativa* 8316

Lettuce mosaic potyvirus
- *Lactuca perennis* 8315
- *Lactuca sativa* 8315
- *Lactuca tatarica* 8315
- *Nicotiana tabacum,* genetic transformation 8568

Leucaena
- compatibility 8127
- forage 9318
- genetic variation 8126
- interspecific hybridization 8127
- nomenclature 9319
- plant composition 9318

Leucaena diversifolia
- embryo culture 4966
- *Heteropsylla cubana* 12203
- interspecific hybridization 4966, 9313, 9317, 12203
- seedlings 9313
- tannins 12203
- tissue culture 4966, 9315
- variety trials 9317
- wood properties 9806

Leucaena esculenta
- interspecific hybridization 9313
- seedlings 9313

Leucaena lanceolata
- interspecific hybridization 9313
- seedlings 9313

Leucaena leucocephala
- chloroplast genetics
  - chemotaxonomy 13280
  - isoenzymes 13280
- digestibility 9317
- embryo culture 4966
- *Heteropsylla cubana* 12203
- interspecific hybridization 4966, 9313, 9317, 12203
- pulp and paper industry 5566
- restriction fragment length polymorphism, ribosomal DNA 13280
- seedlings 9313
- tannins 12203
- tissue culture 4966, 9315
- variety trials 9317
- wood properties 5566
- yield components 3933

Leucaena pallida
- digestibility 9317
- *Heteropsylla cubana* 12203
- interspecific hybridization 9313, 9317, 12203
- seedlings 9313
- tannins 12203
- tissue culture 9315
- variety trials 9317

Leucinodes orbonalis, *Solanum melongena* 696

Leucoagaricus, taxonomy 3439

Leucocoprinus, taxonomy 3439

Leucojum aestivum, *in vitro* culture 11081

Leucostoma, *Prunus persica* 8414

Leucostoma cinctum, *Prunus persica* 11982

Leucostoma persoonii, *Prunus persica* 11982

Leucyl aminopeptidase
- *Arabidopsis thaliana*
  - gene expression 11206
  - genetic transformation 11206
  - immunology 11206

Levansucrase, *Nicotiana tabacum,* genetic transformation 8553

Leveillula taurica
- *Capsicum* 4100
- *Capsicum annuum* 10695
- *Cyamopsis tetragonoloba* 596

Leymus
- barley yellow dwarf luteovirus 2442, 11624
- chromosome pairing 8077
- *Erysiphe graminis* 11624
- gene location, taxonomy 7036
- interspecific hybridization 8077
- molecular genetics, genomes 8077
- restriction fragment length polymorphism, taxonomy 12619
- salinity 11650

Leymus angustus
- drought resistance 9260
- heritability, waxes 9260

Leymus arenarius
- endosperm 3887
- proteins 3887
- varieties, Reeve 11648

Leymus cinereus, chromosome morphology 7034

Leymus salinus, chromosome morphology 7034

Leymus* × *Elymus, intergeneric hybridization 4926, 8077

Leymus* × *Hordeum, intergeneric hybridization 7036, 11649, 12619

Leymus* × *Psathyrostachys, intergeneric hybridization 11649

Leymus* × *Triticum
- intergeneric hybridization 1316
- quality 1316

Libocedrus formosana, wood properties 9834

Licaria applanata, taxonomy 8627

Light
- *Arabidopsis thaliana*
  - epistasis 10020-10021
  - gene expression 74, 3512, 3518, 4588, 7644, 10020-10021, 12421
    - nucleotide sequences 10000
  - gene mapping 12421
  - molecular genetics 3512
  - multiple alleles 10000
  - mutations 74, 3517-3518, 7644, 8819, 10000, 10020-10021, 12421
  - nucleotide sequences 3507
- gene expression 5760
- *Lycopersicon esculentum,* gene expression 7221
- *Nicotiana tabacum* 2070, 5460
  - gene expression 13210
  - genetic transformation 13210
- *Oryza eichingeri* 6038
- *Oryza punctata* 6038
- *Oryza sativa* 9220, 10383-10384, 11583
  - mutations 6995
- *Petroselinum crispum,* gene expression 11109
- *Pisum sativum* 1736
  - gene expression 546, 13210
  - genetic engineering 13210
  - mutations 9403
- *Rosa* 4411
- *Solanum melongena,* gene expression 4077
- *Solanum tuberosum* 4004, 9465, 12934
- *Triticum aestivum*
  - gene expression 187
  - molecular genetics 187
- *Vigna unguiculata* 8220
- *Zea mays* 327, 1427, 5962, 11447
  - gene expression 3750
  - multiple alleles 3750

Lignin
- *Lentinula edodes, in vitro* selection 4505

Lignin *cont.*
- *Pinus radiata,* artificial selection 12217
- *Zea mays,* mutations 10277

Ligules
- *Hordeum vulgare*
  - gene location 12603
  - mutations 12603
  - restriction fragment length polymorphism 12603
- *Zea mays*
  - gene expression 7920
  - mutations 7920, 7924-7925

Lilium
- anther culture 3420
- breeding 6559
- computer programming 2210
- embryo culture 13372
- *Fusarium oxysporum* 3419, 4451
- genetic resources 6559
- interspecific hybridization 13372
- molecular genetics 7526
- storage, pollen 11084
- taxonomy 7526
- variety classification 2210

Lilium japonicum, tissue culture 11086

Lilium longiflorum
- anthers 2208
- gene expression, pollen 12270
- immunology, vitronectin 8708
- *in vitro* culture 2211
- meiosis 2208
- meiotin-1 2208
- molecular genetics, vitronectin 8708
- nuclei 12271
- nucleotide sequences, pollen 12270
- pollen 2211, 12271
- pollen germination 8709, 9888
- pollination 2209, 8709
- self incompatibility 9888, 11085, 11089

Lilium maculatum, protoplasts 9889

Lilium rhodopaeum
- gamma radiation 11087
- *in vitro* culture 11081
- tissue culture 11087

Lilium speciorubel, protoplasts 9889

Limnanthes, population genetics 873

Limonium peregrinum, embryology 9869

Limonium sinuatum, variety trials 12245

Limonoids, *Citrus* 12015

Linalool, *Ocimum americanum,* heterosis 2235

Linamarase
- *Manihot esculenta*
  - molecular genetics 9293
  - nucleotide sequences 9293
- *Trifolium repens*
  - molecular genetics 9293
  - nucleotide sequences 9293
  - population genetics 9297

Linamarin, *Manihot esculenta* 12950

Lindera benzoin, sexual reproduction 11112

Linkage (*see also* Gene location)
- *Aegilops squarrosa* 6814, 7700-7701, 7739
- *Agaricus bisporus* 1066
  - esterases 5683
  - isoenzymes 5683
- artificial selection, mathematics 4603
- *Avena sativa*
  - avenin 12641
  - *Puccinia coronata* 12641
  - *Puccinia graminis* 12641
- *Beta maritima*
  - cytoplasmic male sterility 10908
  - isoenzymes 10908
- *Beta vulgaris*
  - sugarbeet
    - beet necrotic yellow vein furovirus 3269
    - cytoplasmic male sterility 9707, 10908
    - monogerm seeds 3269
    - seedlings 3269
- *Brassica campestris* 6250
- *Brassica napus,* rape 6341
- *Brassica oleracea* 6250
- *Cicer arietinum*
  - colour 10534
  - flowers 10534
  - seeds 10534

- **Linkage** *cont.*
  - *Cucumis sativus*
    - *Cladosporium cucumerinum* 9564
    - fruits 11933
    - *Fusarium oxysporum* 9564
  - genetic markers 4617, 4619-4620, 7662
  - *Glycine,* restriction fragment length polymorphism 12826
  - *Glycine max* 2853
    - fluorescence 12852
    - nodulation 3948
    - plant hairs 12852
    - proline-rich proteins 11702
    - quantitative traits 2859
    - seeds 12852
  - haploidy 12433
  - *Hordeum*
    - milling quality 5849
    - salinity 5849
  - *Hordeum murinum,* hordein 8955
  - *Hordeum pusillum,* hordein 8955
  - *Hordeum vulgare* 2585-2586, 7700-7701
    - β-amylase 1361
    - chlorophyll 1360, 1362
    - endosperm 1360
    - *Erysiphe graminis* 1361, 12624
    - esterases 1360, 1362
    - hordein 12624
    - morphology 1361-1362
    - quality 5849
    - quantitative traits 12607
    - *Rhynchosporium secalis* 1370
    - salinity 5849
  - *Lactuca sativa*
    - *Bremia lactucae* 7203, 8312
    - *Pemphigus bursarius* 7203, 8312
  - *Lens*
    - isoenzymes 11767
    - yield components 11767
  - *Lens culinaris,* isoenzymes 8204
  - *Lycopersicon chmielewskii,* sucrose 677
  - *Lycopersicon esculentum*
    - *Meloidogyne* 7234
    - *Pseudomonas syringae* 1843
  - *Lycopersicon hirsutum,* sucrose 677
  - *Lycopersicon peruvianum,* self incompatibility 1835
  - mathematics 8824
  - *Matthiola incana*
    - flowers 8682
    - growth period 8682
    - leaves 8682
  - *Medicago sativa* 3911
  - *Nicotiana tabacum*
    - methotrexate 7392
    - potato Y potyvirus 7392
    - tobacco etch potyvirus 7392
  - *Oryza sativa* 3571, 10353
    - aldehyde-lyases 12724
    - anthocyanins 11587
    - colour 11587
    - glutelins 3830
    - height 417, 1551, 1556, 2748, 3830
    - leaf spotting 3857
    - *Magnaporthe grisea* 3857
    - oryzacystatin 12724
    - proteins 3830
    - shedding 417, 1556
    - sterility 1551
    - *Xanthomonas oryzae* 6051
  - pathogens 8787
  - *Phaseolus,* restriction fragment length polymorphism 12826
  - *Phaseolus vulgaris*
    - colour 1724
    - flowers 1724
    - *Rhizobium* 2894
    - *Xanthomonas campestris* 2894
  - *Picea abies*
    - enzymes 3364
    - isoenzymes 3364
  - *Picea orientalis*
    - enzymes 3365
    - isoenzymes 3365
    - malate dehydrogenase 3365
    - phosphoglucomutase 3365
  - *Pinus densiflora,* isoenzymes 5583
  - *Pinus leucodermis,* isoenzymes 4365
  - *Pinus pinaster* 12212
  - *Pisum sativum*
    - *Erysiphe pisi* 12902
- **Linkage** *cont.*
  - *Pisum sativum cont.*
    - lipoxygenase 6183
    - trypsin inhibitors 5054
  - *Populus tremuloides,* isoenzymes 7446
  - *Prunus persica* 4140
    - isoenzymes 7279
    - morphology 7279
  - quantitative traits 4617, 4619-4620, 5790, 12427
    - experimental design 7665
    - mathematics 4621
  - *Secale cereale* 7700
    - *Heterodera avenae* 6871
    - isoenzymes 5938
    - secalins 4796
    - self incompatibility 5938
  - selection, statistics 2369
  - self incompatibility 2388
  - *Solanum goniocalyx* 1781
  - *Solanum incanum*
    - isoenzymes 689
    - morphology 689
  - *Solanum melongena*
    - isoenzymes 689
    - morphology 689
  - *Solanum phureja* 1781
  - *Solanum tuberosum* 1781
    - tubers 1786
  - *Sorghum bicolor* 7900
    - *Acremonium strictum* 6948
    - lysine 6937
    - male sterility 6925
    - *Peronosclerospora sorghi* 6948
    - *Sphacelotheca reiliana* 6948
  - statistics 4598, 8841, 12433-12434
  - *Triticum*
    - milling quality 5849
    - salinity 5849
  - *Triticum aestivum* 6746, 7700-7701, 7739
    - chromosome substitution 7749
    - colour 12509
    - endopeptidases 5896
    - gliadin 4690
    - *Puccinia recondita* 5896
    - quality 5849
    - salinity 5849
    - sprouting 12509
  - *Triticum durum*
    - gliadin 4713
    - glutenins 4713
  - *Triticum monococcum,* chromosome substitution 7749
  - *Vigna,* restriction fragment length polymorphism 12826
  - *Zea mays* 3571, 7900, 9031, 10243
    - anthers 11451
    - colour 9041
    - *Gibberella zeae* 3767
    - glumes 11451
    - height 7936
    - leaves 9093
    - proteins 7940
    - quantitative traits 7936
    - *Setosphaeria turcica* 10293
- **Linoleic acid**
  - *Arachis hypogaea* 6421, 10881
  - *Helianthus annuus* 5386
- **Linolenic acid**
  - *Brassica juncea* 5371
    - induced mutations 3204
  - *Linum usitatissimum*
    - linseed 12055
      - induced mutations 6355
- ***Linum grandiflorum***
  - pollen 2101
  - pollination 2101
  - self incompatibility 2101
- ***Linum usitatissimum***
  - flax
    - azacytidine 7425
    - chimaeras 3333
    - experimental design 955
    - flowering 9760
    - gene flow 12451
    - genetic resources 134
    - genetic transformation 3333, 6525, 7422
    - genetic variance
      - height 7424
      - yield components 10982
- ***Linum usitatissimum*** *cont.*
  - flax *cont.*
    - genetics
      - diseases 3334
      - peroxidases 12167
    - genotrophs 7425
    - germination 13247
    - induced mutations
      - development 7425
      - height 7425
    - molecular genetics 12165
    - multivariate analysis 12168
    - mutagens 7425
    - mutations, *Melampsora lini* 956
    - nucleotide sequences, peroxidases 7423
    - random amplified polymorphic DNA 12166
    - seeds 13247
    - somaclonal variation 12451
    - tissue culture 7422
    - transposable elements, *Melampsora lini* 956
    - variety trials 139
    - yield components 12168
    - varieties
      - AC Linora 3332
      - Day 10854
      - Prompt 9759
  - linseed
    - *Alternaria linicola* 8493
    - anther culture 3215, 5342
    - artificial selection, yields 1961
    - *Botrytis cinerea* 8466
    - *Chromatomyia atricornis* 5382
    - *Chromatomyia horticola* 5382
    - *Dasineura lini* 5382
    - fatty acids 5342
    - genotype environment interaction 4229
    - growth period 1961
    - haploidy 3215
    - heterosis
      - irrigation 3216
      - yield components 3216
      - yields 1961
    - induced mutations, linolenic acid 6355
    - linolenic acid 12055
    - *Melampsora lini* 13142
    - *Oidium lini* 8466
    - *Sclerotinia sclerotiorum* 3189, 8467
    - variety trials 139, 5381
    - yield correlations 4228
  - nucleotide sequences, acyl-acyl-carrier-protein desaturase 9677
- ***Lipaphis erysimi***
  - *Brassica juncea* 5379, 10853
  - *Brassica napus,* rape 7330
  - *Brassica oleracea,* kale 7330
- ***Liparis,*** taxonomy 7530
- ***Liparis collinsii,*** taxonomy 4460
- ***Liparis joannis-kornasii,*** taxonomy 8721
- ***Liparis seidenfadeniana,*** taxonomy 5654
- **Lipid transfer proteins**
  - *Arabidopsis thaliana*
    - gene expression 10010
    - genetic transformation 10010
  - *Hordeum vulgare*
    - gene expression 3668, 12604
    - gene location 3668
    - nucleotide sequences 3668, 12604
- **Lipids**
  - *Arabidopsis thaliana*
    - gene expression 12416
    - genetic engineering 12382
    - induced mutations 7652
    - molecular genetics 12382
    - mutations 12416
  - *Brassica napus*
    - rape
      - genetic engineering 12382
      - molecular genetics 12382
  - *Cucumis sativus* 721-722
  - *Cucurbita ficifolia* 722
  - *Elaeis guineensis* 8502
  - genetic engineering 4567
  - genetic transformation 11191
  - molecular genetics 12382
  - mutations 11191
  - *Sicyos angulatus* 722

- **Lipids** *cont.*
  - *Triticum aestivum* 10114, 12556
  - *Zea mays* 6911, 9078
- **Lipoxygenase** 5739
  - *Arabidopsis thaliana*
    - gene expression 5768, 10026, 12407
    - genetic engineering 12407
    - nucleotide sequences 5768
  - *Cajanus cajan* 6212
  - *Glycine max*
    - artificial selection 2865
    - gene expression 8148, 10481
    - molecular genetics 8148
    - nucleotide sequences 10481
  - *Lycopersicon esculentum* 6279
  - *Oryza sativa* 9218
  - *Phaseolus vulgaris*
    - gene expression 2886
    - nucleotide sequences 2886
  - *Pisum sativum*
    - gene expression 6183
    - linkage 6183
    - molecular genetics 6183
  - *Solanum tuberosum*
    - gene expression 10590
    - genetic transformation 10590
    - molecular genetics 10590
- ***Liquidambar,*** genetic distance, isoenzymes 13284
- ***Liquidambar styraciflua***
  - cell culture 12197
  - genetic transformation 12197
  - tissue culture 12197
- ***Liriodendron chinense***
  - embryo culture 980
  - interspecific hybridization 980
  - pollen 11010
  - taxonomy 11010
- ***Liriodendron tulipifera***
  - cytoplasmic inheritance 11008
  - embryo culture 980
  - genetic variation, isoenzymes 11007
  - interspecific hybridization 980
  - pollen 11008, 11010
  - taxonomy 11010
- ***Liriomyza***
  - *Lycopersicon esculentum* 13021
  - *Lycopersicon pimpinellifolium* 13021
- ***Liriomyza cicerina,*** *Cicer arietinum* 1753
- ***Liriomyza trifolii***
  - *Chrysanthemum* 3404
  - *Lycopersicon cheesmanii* 3078
  - *Lycopersicon hirsutum* 3078
  - *Lycopersicon pennellii* 3078
- ***Liriope***
  - genetic resources 9886
  - taxonomy 9886, 13371
- ***Lissocarpa jensonii,*** taxonomy 5573
- ***Lissorhoptrus oryzophilus,*** *Oryza sativa* 9241-9242, 10390
- ***Litchi chinensis***
  - embryo culture 13105
  - embryology 10813
  - fruits 4185
  - outcrossing 4185
  - pollen germination 12018
  - seeds 4185
- ***Lithocarpus dulongensis,*** taxonomy 981
- ***Lobelia cardinalis,*** gynoecium 12252
- ***Lobesia botrana,*** *Vitis vinifera* 5299
- **Lodging**
  - *Avena sativa,* reviews 6865
  - *Brassica napus,* rape 5364, 6346
  - *Helianthus annuus* 5391
  - *Hordeum vulgare* 4758, 5902
    - stability 6830
  - *Oryza sativa* 9213, 9215
  - *Secale cereale* 11411
  - *Sorghum bicolor* 2713
  - triticale, heritability 4799
  - *Triticum aestivum* 10102
  - *Vicia faba,* artificial selection 12869
  - *Zea mays* 10299, 12677
    - artificial selection 6905, 10269, 12671
    - combining ability 1430, 6891
    - reciprocal effects 6891
    - sweetcorn 12677
- ***Lolium***
  - breeding 12778
  - genetic distance, isoenzymes 3878
- ***Lolium*** *cont.*
  - genetic variation, isoenzymes 3878, 4919
  - molecular genetics, allergens 1627
  - nomenclature 4924
  - taxonomy 4921
  - variety trials 3570, 4651
- ***Lolium boucheanum***
  - genetic variation
    - acid phosphatase 9251
    - phosphoglucoisomerase 9251
  - *in vitro* culture 4920
  - interspecific hybridization 9251
  - protoplasts 4920
  - variety classification 9251
- ***Lolium hybridum***
  - flowering 7025
  - photoperiodism 7025
- ***Lolium multiflorum***
  - acetyl-CoA carboxylase 12791
  - *Acremonium* 2788
  - carbohydrates 7026
  - chromosome elimination 12786
  - defoliation 12790
  - diclofop 12791
  - gene location, senescence 12787
  - genetic variation
    - acid phosphatase 9251
    - phosphoglucoisomerase 9251
  - herbicides 8070, 12791
  - *in vitro* culture 4920
  - interspecific hybridization 6067, 9251
  - polyploidy 10396
  - proteins 6067
  - protoplasts 4920
  - salinity 457
  - synaptonemal complex 8068
  - *Trifolium repens,* crop mixtures 6089
  - variety classification 6067, 9251
  - variety trials 7024, 11627
  - X radiation 12786
  - yields 7026
  - varieties 10392
- ***Lolium perenne***
  - *Acremonium* 2788
  - anther culture 10398
  - artificial selection 10395
    - drought resistance 2780, 3879
    - respiration 4918
    - seasonal growth 2780
    - yield components 10397
  - barley yellow dwarf luteovirus 2795
  - breeding 4916
    - economics 10394
  - carbohydrates 9252
  - cold resistance 2786, 2794, 3879, 4917, 8069, 10399, 11278
  - crop density 4918
  - cutting 11630, 12788
  - defoliation 12790
  - digestibility 9252, 10394
  - drought resistance 451
  - ecotypes 9253, 11626
  - electrical properties 11278
  - flowering 7025
  - gene expression 3804
    - heat resistance 9254
    - heat shock proteins 9254
  - genetic resources 456, 11626
  - genetic transformation 3804, 6065
  - genetic variance, leaves 12789
  - genetic variation
    - acid phosphatase 9251
    - isoenzymes 456, 3877
    - phosphoglucoisomerase 9251
  - genotype environment interaction 1628
  - haploidy 2785
  - heritability, leaves 12789
  - heterosis 6066
  - *in vitro* culture 4920
  - *in vitro* selection, cold resistance 11631
  - interspecific hybridization 6067, 9251
  - leaves 12788
  - multivariate analysis
    - agronomy 8067
    - isoenzymes 3877
  - nitrogen 7019, 10394
  - nutrients 7019, 10394
  - persistence 8069
  - phosphofructokinase 10399
  - photoperiodism 7025
  - pollen 3876
- ***Lolium perenne*** *cont.*
  - polyploidy 2785, 10396
  - population genetics 8066-8067
  - proteins 6067
  - protoplasts 4920
  - restriction fragment length polymorphism, evolution 12793
  - seed production 4917
  - seeds 4917
  - self incompatibility 6066
  - stability 9253
  - stress 7019
  - *Trifolium repens,* crop mixtures 6089
  - *Typhula ishikariensis* 7020
  - unreduced gametes 3876
  - variety classification 451, 6067, 9251
  - variety trials 139, 5831, 9250, 11627
  - yield components 4916
  - yield correlations 12788
  - varieties 10392
    - Palmer II 9856
    - Raidi 2781
    - Roper 2792
- ***Lolium rigidum***
  - atrazine 2796
  - diclofop 458
  - gene expression
    - herbicides 1629
    - pollen 1629
  - herbicides 458, 2796, 8071-8072
  - inbreeding depression 11629
  - polymorphism, glucose-6-phosphate isomerase 11629
  - self compatibility 11629
  - simazine 2796
- ***Lolium temulentum***
  - benzyladenine 11628
  - DNA 11628
- ***Lolium* × *Festuca,*** intergeneric hybridization 459, 2785, 2788, 2793, 2797, 3875, 3880, 11634, 12787
- ***Lolium* (×) *Festuca,*** protoplast fusion 12786
- ***Lolium* (×) *Triticum***
  - isoenzymes 192
  - protoplast fusion 192
- ***Lonicera***
  - multivariate analysis 12006
  - polyploidy 12006
  - taxonomy 12006
- ***Lonicera brownii,*** protoplasts 4396
- ***Lonicera caerulea***
  - cryopreservation 6294
  - genetic resources 6293
- ***Lonicera fragrantissima,*** protoplasts 4396
- ***Lonicera japonica,*** tissue culture 4398
- ***Lonicera periclymenum,*** protoplasts 4396
- ***Lotus***
  - gene banks 1668
  - genetic resources 1668
  - random amplified polymorphic DNA, evolution 11688
  - seeds 4960
  - tannins 1674
  - taxonomy 4960
- ***Lotus corniculatus***
  - artificial selection, yield components 9310
  - chemotaxonomy 1676
  - crop mixtures 1669
  - digestibility 1669
  - DNA binding proteins 10464
  - gene expression
    - dihydrokaempferol 4-reductase 8121
    - leghaemoglobin 486, 8122, 12822
    - nitrogen fixation 8122
    - nodulation 12822
    - tannins 8121
  - genetic transformation 2847
    - dihydrokaempferol 4-reductase 8121
    - leghaemoglobin 486, 12822
    - nodulation 12822
    - nodulins 2870
    - tannins 1675, 8121
  - germplasm releases 11687
    - drought resistance 9311
    - self compatibility 2848
    - yield components 9310
  - globulins 6095
  - glycosides 1676
  - induced mutations
    - leghaemoglobin 8122

Lotus corniculatus *cont.*
- induced mutations *cont.*
  - nitrogen fixation 8122
- leaves 10464
- leghaemoglobin 10464
- mutations, inflorescences 1673
- plant introduction 1666-1667
- random amplified polymorphic DNA, evolution 11688
- seeds 6095
- variety trials 1669-1671
- varieties
  - Dawn 9309
  - Grasslands Goldie 2846

Lotus japonicus
- molecular genetics 1677
- nodulation 1677

Lotus tenuis
- chemotaxonomy 1676
- genetics, self incompatibility 2849
- glycosides 1676

Lotus uliginosus
- crop mixtures 1669
- digestibility 1669
- plant introduction 1666
- variety trials 1669-1670

Lotus* (×) *Oryza
- chloroplast genetics 1672
- mitochondrial genetics 1672
- protoplast fusion 1672

Lotus* (×) *Oryza
- chloroplast genetics 12730
- mitochondrial genetics 12730
- protoplast fusion 12730

Low input agriculture
- *Avena sativa* 11401
- cereals 11292
- triticale 1252
- *Triticum aestivum* 1252
- *Zea mays* 10286

Luciferase
- *Dendrobium,* genetic transformation 13375
- *Nicotiana tabacum*
  - gene expression 916, 927
  - genetic transformation 916, 927
- *Oryza sativa*
  - gene expression 8011
  - genetic transformation 8011
- *Zea mays,* gene expression 10236

Luffa
- breeding 725
- cytology 725

Lupinosis, *Lupinus* 3930

Lupinus
- alkaloids 4978
- breeding, conferences 2251, 5694
- *Diaporthe woodii* 3930
- α-galactosides 4978
- gene expression
  - nutritive value 8133
  - proteins 8133
- genetic transformation
  - nutritive value 8133
  - proteins 8133
- genetics, conferences 2251
- lupinosis 3930
- mechanical damage 4971
- nutritive value 2844
- roots 7063
- seed moisture 4971
- seed testing 4971
- seeds 4971
- tissue culture 3928

Lupinus albus
- acid phosphatase 7065
- alkaloids 4959, 7065, 12821
- anther culture 7064
- artificial selection, stress 7072
- cold resistance 6094
- determinate and indeterminate habit 4957, 6094, 8120, 10440
- drought resistance 10442
- genetic variance, alkaloids 10441
- genetic variation
  - isoenzymes 3927
  - phosphogluconate dehydrogenase 3927
- growth period 1664
- habit 10440, 11683
- harvest index 1664

Lupinus albus *cont.*
- heat sums 1664
- morphology 8120
- nutritive value 4959, 7065
- peroxidases 7065
- *Phoma* 2845
- photosynthesis 1664
- *Pleiochaeta setosa* 2845
- proteins 7065
- roots 8119
- saponins 6093
- seeds 10440
- spring and winter habit 8119
- stability 4957
- tissue culture 3929
- variety trials 7062
- vernalization 1665
- yield components 1664, 11683
- varieties, Manovitskiĭ 2413

Lupinus angustifolius
- alkaloids 4959
- altitude 11686
- chlorosis 11686
- gene expression, asparaginase 11685
- genetic engineering
  - asparaginase 11685
  - aspartate aminotransferase 8118
- genetic transformation, asparaginase 11685
- growth period 1664
- harvest index 1664
- heat sums 1664
- multivariate analysis
  - morphology 12820
  - yield components 12820
- nucleotide sequences
  - D-alanine transaminase 11682
  - aspartate aminotransferase 8118
- nutritive value 4959
- photosynthesis 1664
- roots 7063
- saponins 6093
- soil pH 11686
- yield components 1664
- varieties
  - Bryanskiĭ-123 2413
  - Merrit 1663

Lupinus hispanicus, genetics, seeds 11684

Lupinus luteus
- alkaloids 4959
- artificial selection, yields 7061
- chloroplast genetics 4956
- gene expression 4956
- growth period 1664
- harvest index 1664
- heat sums 1664
- nucleotide sequences 6092
- nutritive value 4959
- photosynthesis 1664
- seedlings 7061
- tissue culture 485
- yield components 1664

Lupinus mutabilis, tissue culture 9308

Lupinus polyphyllus
- alkaloids 4958
- nutritive value 4958

Luziola bahiensis
- molecular genetics
  - evolution 1645
  - taxonomy 1645

Luziola fluitans
- molecular genetics
  - evolution 1645
  - taxonomy 1645

Luzula
- chromosome number 11652
- DNA 11652

Lycopersicon
- artificial selection
  - *Alternaria solani* 11894
  - pollen 11894
- chloroplast genetics, taxonomy 3568
- cucumber mosaic cucumovirus 5189
- diseases 6273
- gene expression, β-glucuronidase 11884
- genetic markers 10683
- genetic transformation, β-glucuronidase 11884
- genetics, *Clavibacter michiganensis* 5183
- *in vitro* selection
  - *Alternaria solani* 11894

Lycopersicon *cont.*
- *in vitro* selection *cont.*
  - pollen 11894
- interspecific hybridization 6273, 7232
- *Oidium lycopersici* 8343
- pests 6273
- polymerase chain reaction 10657
- polymorphism, proteins 10656
- potato leafroll luteovirus 7232
- *Pseudomonas corrugata* 9550
- random amplified polymorphic DNA 10657, 10683
  - variety classification 12998
- tobacco mosaic tobamovirus 10683
- tomato spotted wilt tospovirus 3077
- tomato yellow top luteovirus 7232
- transposable elements 6481
- variety classification 10657

Lycopersicon cheesmanii
- genetic variance, *Alternaria alternata* 13017
- heritability, *Alternaria alternata* 13017
- interspecific hybridization 13017
- *Liriomyza trifolii* 3078
- plant composition 11888
- salinity 11888

Lycopersicon chilense
- gene mapping, tomato yellow leaf curl bigeminivirus 9553
- genetic transformation, tomato yellow leaf curl bigeminivirus 681, 10685
- genetics, tomato yellow leaf curl bigeminivirus 9553
- interspecific hybridization 5183, 9553
- nucleotide sequences, stress 6262
- restriction fragment length polymorphism, tomato yellow leaf curl bigeminivirus 9553

Lycopersicon chmielewskii
- chromosome addition, quality 8335
- gene expression
  - acid invertase 4069
  - sugars 4069
- gene mapping
  - quality 8335
  - sucrose 677
- interspecific hybridization 677, 4069, 8335
- linkage, sucrose 677

Lycopersicon esculentum
- *Alternaria alternata* 5186, 5188, 10680
- *Alternaria solani* 3069, 5187
- antioxidants 678
- artificial selection
  - *Alternaria solani* 11894
  - growth period 1837
  - pollen 11894
- backcrossing 11881, 11893
- benzyladenine 11628
- breeding 1833, 6247
  - reports 1071
  - reviews 5168
- cell culture 676
- cell division 1834
- chitinase 6278
- chlorogenic acid 10670
- chlorothalonil 3069
- chromosome addition
  - quality 8335
  - quantitative traits 13009
  - yield components 13009
- chromosome pairing 7218
- chromosome translocation 4060
- *Clavibacter michiganensis* 10678
- colchicine 1834
- cold 7228
- cold resistance 678, 5182, 6271, 9546
- combining ability
  - yield 5178
  - yield components 3061, 11889
  - yields 3057
- coronatine 10030
- crossing over 1839, 4060
- cytology 670
- cytoplasmic inheritance, yield 5178
- development 7228
- diseases 6273
- DNA 670, 11628
- drought resistance 4071, 7230, 8336, 11889-11890
- embryo culture 5179, 11236, 11881

Lycopersicon esculentum *cont.*
- embryology 669
- endomitosis 8329
- epistasis
  - quantitative traits 11891
  - salinity 11891
- ethyl methanesulfonate 7231, 8341, 11882
- flooding 10675
- fruits 6266
- *Fusarium oxysporum* 3062, 3068, 3072, 6278
- gene expression 3579
  - ACC deaminase 673
  - ACC synthase 671, 6286
  - acid invertase 4069
  - adenosylmethionine synthetase 9548
  - anthers 1828
  - anthocyanins 13003
  - arginine decarboxylase 4063
  - binding proteins 665
  - brassinosteroids 8154
  - chloroplasts 9544
  - chorismate synthase 4055
  - citrus exocortis viroid 8349-8350
  - cytosol aminopeptidase 9549
  - 3-deoxy-D-*arabino*-heptulosonate 7-phosphate synthase 4054
  - development 10666
  - drought resistance 1840, 7215
  - enzymes 10659
  - ethylene 671
  - fenthion 10677
  - flowers 7219-7220, 10666
  - fruits 4062, 8332, 9540, 10671
    - reviews 9541
  - gibberellins 10660
  - β-glucanase 8350
  - glutamate synthase 7221
  - growth regulators 671, 8154, 10660
  - histidine decarboxylase 1829
  - histones 8333
  - hygromycin phosphotransferase 9538
  - injuries 12997, 13014-13015
  - light 7221
  - *Meloidogyne incognita* 10686
  - pathogenesis-related proteins 664, 8349
  - pectin esterase 9540
  - pectinesterase 10667, 13011
  - peroxidases 9547
  - photosynthesis 7212
  - phytochrome 9544
  - pollen 8330, 13001
  - polygalacturonase 672, 11887, 13011
    - reviews 9541
  - proteinase inhibitors 4056, 13014-13015
  - proteins 667, 7214
  - *Pseudomonas syringae* 9549, 10677
  - quality 11887
  - ribulose-bisphosphate carboxylase 394
  - ripening 672-673, 1829, 3058, 4062-4063, 7215, 10668, 10671, 11887, 13011
    - reviews 9541
  - salinity 9547-9548
  - schlerenchyma 13008
  - *Spodoptera littoralis* 9549
  - sucrose synthase 8332
  - sugars 4069
  - systemin 6268
  - tomato spotted wilt tospovirus 10952
  - transferases 12997
  - xylem 13008
- gene location
  - isoenzymes 8337
  - *Pseudomonas solanacearum* 13016
  - salinity 8337
- gene mapping 12995
  - abscission 7211
  - development 8331
  - *Fulvia fulva* 3070-3071, 8341
  - *Meloidogyne* 682, 5191
  - quality 8335
  - roots 8331
  - tomato yellow leaf curl bigeminivirus 9553
  - transposable elements 10655
- genetic engineering 2342

Lycopersicon esculentum *cont.*
- genetic engineering *cont.*
  - ACC synthase 10663
  - *Bacillus thuringiensis* 683
  - ethylene 10663
  - fruits 4062
  - insects 2348
  - isopentenyl transferase 3053
  - legislation 11877
  - pectinesterase 666, 13011
  - pollen 8330
  - polygalacturonase 666, 7226, 13011
  - quality 4070
  - ripening 2348, 4062, 4070, 7226, 9542, 10663, 13011
- genetic markers
  - isoenzymes 8337
  - *Pseudomonas solanacearum* 8338, 13016
  - quantitative traits 11891
  - salinity 8337, 11891
  - spectinomycin adenyltransferase 11880
  - streptomycin 11880
  - transposable elements 7210
  - variegation 11880
- genetic resources 6247, 7208, 12993
- genetic transformation 663, 10656, 10658
  - ACC deaminase 673
  - anthocyanins 13003
  - auxins 8344
  - cytokinins 8344
  - flowers 7219
  - fruits 1836, 4062, 11883
    - reviews 9541
  - *Fulvia fulva* 3075, 6276, 6658
  - *Fusarium oxysporum* 8344
  - glufosinate acetyltransferase 7688
  - *Helicoverpa armigera* 683
  - isopentenyl transferase 3053
  - *Manduca sexta* 4076
  - pectinesterase 666, 10667
  - peroxidases 1831
  - pollen 13001
  - polygalacturonase 666, 11887
    - reviews 9541
  - proteinase inhibitors 6265
  - *Pseudomonas syringae* 4074-4075
  - quality 11887
  - reviews 11883
  - ripening 673, 1836, 3055, 4062, 11883, 11887
    - reviews 9541
  - spectinomycin adenyltransferase 11880
  - streptomycin 11880
  - tobacco mosaic tobamovirus 8351
  - tomato mosaic tobamovirus 8352
  - tomato spotted wilt tospovirus 10952
  - tomato yellow leaf curl bigeminivirus 681, 11895
  - transposable elements 3054, 5170, 7210, 8328, 10655
  - variegation 11880
- genetic variance
  - *Alternaria alternata* 13017
  - sugars 13012
  - yield 5178
  - yield components 11889
  - yields 10672
- genetics
  - adenosinetriphosphatase 6275
  - alcohol dehydrogenase 5175
  - *Alternaria alternata* 8347
  - blossom-end rot 1846
  - carotenes 13007
  - *Fulvia fulva* 1844, 6275-6276, 8346
  - *Leptinotarsa decemlineata* 6282
  - *Pseudomonas solanacearum* 11892
  - quantitative traits 3056
  - sugars 13012
  - tomato chlorotic spot tospovirus 6280
  - tomato spotted wilt tospovirus 6280
  - tomato yellow leaf curl bigeminivirus 9553
  - *Xanthomonas campestris* 5184
  - zingiberene 6282
- germination 3059, 9546, 13013
- *Gibberella fujikuroi* 10680
- β-glucanase 6278

Lycopersicon esculentum *cont.*
- glucose-6-phosphate dehydrogenase 10670
- β-glucosidase 5187
- glutamate dehydrogenase 10670
- growth period 13004
- growth regulators 10030
- *Helicoverpa armigera* 9555, 10687
- *Heliothis virescens* 9555
- herbicides 3069
- heritability
  - *Alternaria alternata* 13017
  - growth period 3060
  - yield components 4065, 4067
- heterosis
  - development 10669
  - fruits 10673
  - photosynthesis 10669
  - quality 10673
  - yield components 1838, 3061, 4066, 7230
  - yields 1832
- hybrid varieties 6264
- ideotypes 7227
- *in vitro* selection
  - *Alternaria alternata* 3073, 13019
  - *Alternaria solani* 9552, 11894
  - *Fusarium oxysporum* 3076, 8342
  - herbicides 3080
  - imazethapyr 3080
  - pollen 11894
  - polysaccharides 8342
  - toxic substances 3073
- induced mutations, *Fulvia fulva* 1844, 7231, 8341
- insects 13021
- interspecific hybridization 669, 676-677, 1840, 3056, 4069, 5179, 5183, 6273, 6282, 7218, 7232, 8335, 8337, 8351, 9553, 10656-10657, 10683, 11236, 11881, 11888, 11891-11892, 11895, 12995, 13009, 13012, 13017-13018
- irrigation 1842
- linkage
  - *Meloidogyne* 7234
  - *Pseudomonas syringae* 1843
- lipoxygenase 6279
- *Liriomyza* 13021
- *Manduca* 9555
- mechanical damage 5181
- mechanical harvesting 5181
- *Meloidogyne incognita* 679, 3062, 6272, 10676
- methyl jasmonate 10030
- molecular genetics 668, 3579, 11878
  - ACC synthase 661, 6286
  - alcohol dehydrogenase 1830
  - arginine decarboxylase 4063
  - binding proteins 665
  - desiccation 5172
  - β-fructofuranosidase 4057
  - fruits 10671, 13006
  - *Fulvia fulva* 7231
  - *Fusarium oxysporum* 6277
  - histones 8333
  - injuries 13015
  - *Meloidogyne incognita* 6281
  - pathogenesis-related proteins 664
  - polygalacturonase 672
  - proteinase inhibitors 13015
  - *Pseudomonas solanacearum* 8338
  - *Pseudomonas syringae* 1843, 3067, 9551
  - ripening 672, 675, 4063, 5172, 10671, 13006
  - variety classification 12999
- mutagens 7231, 8341, 11882
- mutations 1833
  - abnormal development 11882
  - abscisic acid 146
  - ACC synthase 10663
  - alcohol dehydrogenase 5175
  - anthocyanins 13003
  - catalase 9545
  - chlorophyll 5176, 8328, 9543
  - determinate and indeterminate habit 6267
  - ethylene 10663
  - fenthion 10677
  - flowers 6269, 11882

- ***Lycopersicon esculentum*** *cont.*
  - mutations *cont.*
    - fruits 11882-11883
    - gibberellins 10660
    - growth regulators 146, 10660
    - injuries 4064
    - peroxidases 9545
    - photoperiodism 10664
    - phytochrome 4061, 10664-10665, 13005
    - proteinase inhibitors 4064
    - *Pseudomonas syringae* 10677
    - reviews 11883
    - ripening 675, 10663, 11883
    - seedlings 11882
    - stems 6267
    - superoxide dismutase 9545
    - tropisms 147, 674
    - ultraviolet radiation 10665
    - variegation 5176, 9543
  - nucleotide sequences 9539, 11878
    - adenosylmethionine synthetase 9548
    - anthers 1828
    - cathepsin D inhibitor protein 8326
    - chorismate synthase 4055
    - citrus exocortis viroid 8349-8350
    - 3-deoxy-D-*arabino*-heptulosonate 7-phosphate synthase 4054
    - development 8331
    - drought resistance 7215
    - flowers 7219
    - β-fructofuranosidase 9536
    - fruits 9540
    - β-glucanase 8350
    - histidine decarboxylase 1829
    - *Meloidogyne incognita* 10686
    - pathogenesis-related proteins 8349, 12996
    - pectin esterase 9540
    - peroxidases 5171, 9547
    - photosynthesis 7212
    - phytoene desaturase 7213
    - polygalacturonase inhibitor 12996
    - proteinase inhibitors 4056, 9537
    - proteins 6263, 7214
    - *Pseudomonas syringae* 4075
    - ripening 1829, 7215
    - roots 8331
    - schlerenchyma 13008
    - sucrose synthase 8324
    - transferases 12997
    - ubiquitin 8327
    - ubiquitin conjugating enzyme 8325
    - xylem 13008
  - nutrients 5177
  - *Oidium* 10682
  - *Orobanche aegyptiaca* 13022
  - oryzalin 1834
  - pests 6273
  - phenolic compounds 10670
  - photosynthesis 5177
  - *Phytophthora capsici* 8348
  - *Phytophthora nicotianae* 6279
  - plant composition 5180, 6266, 11888
  - pleiotropy, male sterility 3057
  - pollen competition 1236
  - pollen germination 8321
  - polymerase chain reaction 9535
    - *Meloidogyne* 7234
    - transposable elements 7210
  - polymorphism, photosynthesis 932
  - proteinase inhibitors 10030
  - proteins 10670
  - protoplast fusion 7218, 11236
  - protoplasts 676, 7224, 8347
  - *Pseudocercospora fuligena* 6274
  - *Pseudomonas solanacearum* 679, 3064, 3066, 5185, 8339, 10676, 11893
  - *Pseudomonas syringae* 3063, 3065, 4072
  - quality 5181, 6266, 6270, 7227, 13010
  - random amplified polymorphic DNA 9535, 12995
    - *Fulvia fulva* 3070
    - *Meloidogyne* 7234
    - variety classification 12998
  - recombination 1839
  - regenerative ability 1240, 11885
  - restriction fragment length polymorphism 668, 11185
    - *Fulvia fulva* 3070-3071, 13018
    - *Meloidogyne* 682
- ***Lycopersicon esculentum*** *cont.*
  - restriction fragment length polymorphism *cont.*
    - polyploidy 13000
    - quantitative traits 3056, 13009
    - tomato yellow leaf curl bigeminivirus 9553
    - transposable elements 3054
    - yield components 13009
  - ripening 5180
  - salinity 1841-1842, 4071, 7229, 11888
  - seeds 10662
  - *Septoria lycopersici* 3074, 8345
  - soil types 13013
  - somaclonal variation
    - *Clavibacter michiganensis* 4073
    - morphology 7225
    - tobacco mosaic tobamovirus 1845, 11896
  - *Spodoptera exigua* 13021
  - stress 1839
  - synaptonemal complex 3541, 4060, 7218
  - temperature 10661
  - tissue culture 662, 1240, 7223, 8334, 11885-11886
  - tobacco mosaic tobamovirus 3062, 8353
  - tomato spotted wilt tospovirus 6272, 7233
  - tomato yellow leaf curl bigeminivirus 5190, 10684, 13020
  - toxic substances 5188, 10030
  - translocation 10661
  - transposable elements 10658
    - chlorophyll 9543
    - hygromycin phosphotransferase 9538
    - spectinomycin adenyltransferase 11880
    - streptomycin 11880
    - variegation 9543, 11880
  - ultrastructure 10662
  - variety classification 8774
  - variety trials 5169, 6261, 11876
  - *Verticillium albo-atrum* 10681
  - *Verticillium dahliae* 3062, 8340
  - viruses 2342
  - wide hybridization 13000
  - *Xanthomonas campestris* 10679
  - yield components 7222
  - yield correlations 4068, 11890
  - Pusa Gaurav 7209
  - varieties 10053, 11267
    - Arcadia 8322
    - Goulburn 8322
    - Juliette 12994
    - Jumbo AG-592 1827
    - Mountain Belle 4052
    - Mountain Gold 4051
    - Ohio-8556 4053
    - Processor-278 4050
    - Super Chief 8323
- ***Lycopersicon hirsutum***
  - antioxidants 678
  - cold resistance 678
  - gene mapping, sucrose 677
  - genetic transformation, tomato yellow leaf curl bigeminivirus 681, 10685
  - genetics
    - *Leptinotarsa decemlineata* 6282
    - zingiberene 6282
  - *Helicoverpa armigera* 9555
  - *Heliothis virescens* 9555
  - interspecific hybridization 677, 6282, 10657, 13012
  - linkage, sucrose 677
  - *Liriomyza trifolii* 3078
  - *Manduca* 9555
  - *Manduca sexta* 3079
  - methyl ketones 3079
  - *Pseudocercospora fuligena* 6274
  - *Spodoptera exigua* 8354
  - sucrose 13012
  - tissue culture 7223
- ***Lycopersicon pennellii***
  - cell culture 676
  - chromosome addition
    - quantitative traits 13009
    - yield components 13009
  - drought resistance 4071
  - gene expression, drought resistance 1840
  - gene location
    - isoenzymes 8337
- ***Lycopersicon pennellii*** *cont.*
  - gene location *cont.*
    - salinity 8337
  - gene mapping 12995
  - genetic markers
    - isoenzymes 8337
    - salinity 8337
    - transposable elements 7210
  - genetic transformation 10656
    - tomato yellow leaf curl bigeminivirus 11895
    - transposable elements 7210
  - genetics, quantitative traits 3056
  - *Helicoverpa zea* 9554
  - interspecific hybridization 676, 1840, 3056, 8337, 10656, 11888, 11895, 12995, 13009, 13018
  - *Liriomyza trifolii* 3078
  - plant composition 11888
  - polymerase chain reaction, transposable elements 7210
  - protoplasts 676
  - random amplified polymorphic DNA 12995
  - restriction fragment length polymorphism
    - chromosomes 7216
    - quantitative traits 3056, 13009
    - yield components 13009
  - salinity 4071, 11888
  - *Spodoptera exigua* 9554
  - *Xanthomonas campestris* 10679
- ***Lycopersicon peruvianum***
  - backcrossing 11881
  - chromosome pairing 7218
  - embryo culture 5179, 11881
  - embryology 669
  - gene mapping, *Meloidogyne* 5191
  - genetic transformation, tobacco mosaic tobamovirus 8351
  - genetics, self incompatibility 1835, 13002
  - interspecific hybridization 669, 5179, 5183, 7218, 7232, 8351, 10683, 11881
  - linkage, self incompatibility 1835
  - molecular genetics, heat shock proteins 10674
  - nucleotide sequences
    - heat 5173
    - ribonucleases 11879
    - self incompatibility 11879
  - plant composition 11888
  - potato leafroll luteovirus 7232
  - protoplast fusion 7218
  - *Pseudocercospora fuligena* 6274
  - *Pseudomonas syringae* 3065
  - salinity 11888
  - synaptonemal complex 7218
  - tomato yellow leaf curl bigeminivirus 5190
  - tomato yellow top luteovirus 7232
- ***Lycopersicon pimpinellifolium***
  - epistasis
    - quantitative traits 11891
    - salinity 11891
  - genetic markers
    - quantitative traits 11891
    - salinity 11891
  - genetics
    - *Fusarium oxysporum* 680
    - *Pseudomonas solanacearum* 11892
  - insects 13021
  - interspecific hybridization 10657, 11891-11892
  - *Liriomyza* 13021
  - seeds 10662
  - *Spodoptera exigua* 13021
  - tomato yellow leaf curl bigeminivirus 5190
  - ultrastructure 10662
- ***Lycopersicon*** (×) ***Nicotiana***
  - chloroplast genetics 4058
  - mitochondrial genetics 4058
  - protoplast fusion 4058
- ***Lycopersicon*** (×) ***Solanum***
  - chromosome pairing 7217
  - synaptonemal complex 7217
  - unreduced gametes 7217
  - DNA 5090
  - gamma radiation 5090
  - protoplast fusion 2954, 4059, 5090, 5174, 7217, 9457

- ***Lygus lineolaris***
  - *Fragaria ananassa* 3153
  - *Gossypium hirsutum* 9753
- ***Lymantria dispar,*** *Populus nigra,* genetic transformation 5549
- ***Lysimachia***
  - pollen 6575
  - taxonomy 6575
- **Lysine**
  - *Glycine max* 517
  - *Hordeum vulgare* 4766
    - back mutations 2589
    - genetics 2589, 2616
    - induced mutations 12617
    - mutations 2589, 2616
  - *Nicotiana tabacum,* gene expression 4292
  - *Oryza sativa* 436
  - *Sorghum bicolor* 357, 11527
    - linkage 6937
  - triticale × *Triticum,* chromosome addition 8994
  - *Triticum aestivum,* chromosome addition 8994
  - *Vicia faba* 5006
  - *Zea mays* 340, 1436, 1448-1451, 4839, 11501
    - artificial selection 7947
    - genetics 339, 1447, 10278
    - modifiers 339, 1447
    - molecular genetics 3753
    - mutations 330, 1444, 3753, 10278
- ***Lysionotus apicidens,*** taxonomy 12240
- **Lysozyme**
  - genetic engineering, reviews 35
  - *Nicotiana tabacum*
    - gene dosage 8543
    - gene expression 6506, 8543
    - genetic transformation 8543
    - nucleotide sequences 6506
  - *Solanum tuberosum*
    - gene expression 4005
    - genetic transformation 4005, 6239
- ***Lythrum***
  - androecium 13357
  - fertility 13357
  - gynoecium 13357
  - interspecific hybridization 13357
- ***Lythrum salicaria***
  - genetic variance
    - heterostyly 11063
    - sex 11063
  - heritability
    - heterostyly 11063
    - sex 11063
  - interspecific hybridization 8676, 13357
- ***Lythrum virgatum,*** interspecific hybridization 8676
- **Lytic peptides,** genetic engineering 4549
- ***Mabea,*** taxonomy 7456
- ***Macadamia***
  - cuttings 12026
  - *Nectria rugulosa* 3185
  - *Phytophthora capsici* 3185
  - taxonomy 8463
  - *Xylaria arbuscula* 3185
- ***Macadamia claudiensis,*** taxonomy 8463
- ***Macadamia grandis,*** taxonomy 8463
- ***Macadamia integrifolia***
  - fruits 8461
  - outcrossing 8461
  - pollination 7317
- ***Macadamia tetraphylla***
  - fruits 8461
  - outcrossing 8461
- ***Maclurochloa,*** taxonomy 7558
- ***Macrophomina phaseolina***
  - *Cicer arietinum* 1755
  - *Corchorus* 3335
  - *Glycine max* 2418
  - *Helianthus annuus* 2418
  - *Phaseolus lunatus* 9393
  - *Sesamum indicum,* combining ability 1995
  - *Solanum tuberosum* 12942
  - *Sorghum bicolor* 4871, 6943, 12696
  - *Vigna radiata* 10561
  - *Zea mays* 1466, 2418, 9155
- ***Macroptilium***
  - chemotaxonomy 1686
  - genetic resources 6096
- ***Macroptilium longipedunculatum,*** varieties, Maldonado 1679
- ***Macrosiphum euphorbiae,*** *Solanum tuberosum* 8263
- ***Macrotyloma uniflorum***
  - heritability, yield components 2940
  - multivariate analysis 9447
  - yield components 9447
- ***Macrotyloma* × *Lablab***
  - artificial selection
    - determinate and indeterminate habit 6227
    - photoperiodism 6227
  - intergeneric hybridization 6227
  - proteins 6227
  - seeds 6227
- ***Maerua denhardtiorum,*** taxonomy 2126
- ***Maerua macrocarpa,*** taxonomy 2126
- ***Magnaporthe grisea***
  - *Oryza* 3856
  - *Oryza sativa* 2765, 3852-3855, 4879, 6052, 6999-7001, 7003-7007, 8050-8051, 9238-9239, 10336, 12770
    - gene mapping 12768
    - genetic markers 7002
    - genetic transformation 8040
    - genetics 3858, 12769
    - *in vitro* selection 11285
    - linkage 3857
    - restriction fragment length polymorphism 7002, 12768
- ***Magnaporthe salvinii,*** *Oryza sativa,* germplasm releases 9237
- **Magnesium,** *Festuca pratensis* 11642
- ***Magnolia***
  - breeding, books 7573
  - cytoplasmic inheritance 7499
  - taxonomy 13342
  - varieties 5613
    - Butterflies 5614
- ***Magnolia grandiflora***
  - DNA 8865
  - interspecific hybridization 5617, 7499
- ***Magnolia macrophylla,*** tissue culture 5620
- ***Magnolia sieboldii,*** interspecific hybridization 5617, 7499
- ***Magnolia tripetala,*** interspecific hybridization 7499
- ***Magnolia virginiana,*** interspecific hybridization 7499
- **Maize chlorotic dwarf ribotungrovirus,** *Zea mays* 9159
- **Maize chlorotic mottle machlovirus,** *Zea mays,* sweetcorn, genetic transformation 5989
- **Maize dwarf mosaic potyvirus**
  - *Zea mays* 4850-4851, 11497
    - restriction fragment length polymorphism 10292
    - sweetcorn, genetic transformation 5989
- **Maize mosaic nucleorhabdovirus,** *Zea mays* 348, 11497
- **Maize streak monogeminivirus**
  - *Zea mays* 348, 9160, 11497
    - artificial selection 11505
    - genetic transformation 4849, 5990
- ***Majorana*** (*see Origanum*)
- **Malate dehydrogenase**
  - *Cereus peruvianus* 2216
  - *Cucumis sativus,* gene expression 10709
  - *Glycine max* 12851
    - mutations 12853
  - *Hibiscus* 960
  - *Mesembryanthemum crystallinum*
    - gene expression 8730
    - molecular genetics 8730
  - *Musa,* genetic variation 788
  - *Panicum infestum,* genetics 367
  - *Panicum maximum,* genetics 367
  - *Panicum trichocladum,* genetics 367
  - *Picea orientalis*
    - genetics 3365
    - linkage 3365
  - *Prunus armeniaca* 3132
  - *Rubus idaeus,* genetics 1899
  - *Rubus neglectus,* genetics 1899
  - *Tulipa,* genetic variation 13373
  - *Zea mays* 10255
    - genetics 3763
- **Malate synthase**
  - *Brassica napus*
    - rape
      - gene expression 8477
      - genetic engineering 8477
  - *Cucumis sativus,* gene expression 10709
  - *Nicotiana tabacum,* genetic transformation 8477
- **Malathion,** *Hordeum vulgare* 11383
- **Male sterility** 3537
  - (*see also* Cytoplasmic male sterility)
  - *Allium cepa* 7192
  - *Allium trifoliatum* 12969
  - *Arabidopsis thaliana*
    - gene expression 10030
    - induced mutations 7636, 10030, 11215
    - mutations 3515
  - *Atylosia* × *Cajanus* 1758
  - *Beta vulgaris*
    - sugarbeet 3272
      - gene location 12113
  - *Brassica* 12029
    - reviews 11864
  - *Brassica chinensis* 6342
  - *Brassica napus*
    - rape 1940, 4212, 13141
      - genetic transformation 6345
      - nucleocytoplasmic interaction 6342
  - *Brassica oleracea*
    - Brussels sprouts 6342
    - cabbages 1940
    - cauliflowers 1940
      - genetics 642
    - kale 1940, 6251
  - *Brassica pekinensis* 6251
    - genetics 8305
  - *Cajanus cajan* 11773
  - *Carthamus tinctorius* 6364
  - *Citrullus lanatus,* genetics 11913, 13035
  - *Citrus sinensis* 797
  - crops, genetic engineering 1233
  - Cruciferae, reviews 11864
  - *Eucalyptus leucoxylon* 5529
  - fatty oil plants, genetic transformation 2386, 11242
  - *Fragaria vesca,* genetics 10773
  - genetic engineering 6667
  - *Glycine max* 3944
  - *Gossypium hirsutum,* genetics 3319
  - *Helianthus annuus* 1963, 5385
  - *Hordeum vulgare* 2599
    - genetics 1352
    - mutations 1352
  - *Lycopersicon esculentum,* pleiotropy 3057
  - mathematics 12446
  - *Nicotiana sylvestris* 2065
  - *Nicotiana tabacum*
    - gene expression 2060
    - genetic transformation 2060, 2386, 11242
  - *Oenothera,* genetics 9871
  - *Oryza* 10362
  - *Oryza sativa* 418, 2733, 2736-2737, 2741, 3818-3819, 3823, 3836, 6028-6029, 8019, 9210-9212, 10363, 10366
    - artificial selection 410, 9207
    - backcrossing 3825
    - genetics 407, 1540, 1545, 2739, 3825, 4886, 8018
    - photoperiodism 2744
  - *Pennisetum glaucum* 375, 1497
    - combining ability 7984
  - *Petunia,* molecular genetics 2198
  - *Phacelia dubia* 4422
  - *Pisum sativum*
    - genetics 1733, 11752
    - induced mutations 1733, 11752
  - *Prunus armeniaca,* genetics 13059
  - *Prunus mahaleb* 7275
  - *Raphanus sativus,* reviews 11864
  - reviews 115, 1201
  - *Salvia pratensis* 8741
  - *Secale cereale,* genetics 3698
  - *Secale* × *Triticum,* genetics 3698
  - *Solanum*
    - tuberous species
      - genetics 8244

- *Solanum cont.*
  - tuberous species *cont.*
    - nucleocytoplasmic interaction 8244
  - *Solanum tuberosum* 8249
    - genetics 8244
    - nucleocytoplasmic interaction 8244
  - *Sorghum bicolor*
    - germplasm releases 11522
    - induced mutations 6925
    - linkage 6925
  - *Trifolium hirtum* 3923
  - triticale 3701, 5940
  - *Triticum aestivum* 240, 3613, 12499
    - genetics 1289
    - induced mutations 1288-1289
  - *Triticum dicoccum,* genetics 3698
  - *Triticum durum,* genetics 3698
  - *Vicia faba,* nucleocytoplasmic interaction 11733
  - *Zea mays* 3734, 11451
    - gene location 9074
    - genetics 7913
    - mutations 9073
    - restriction fragment length polymorphism 9074
- **Maleic hydrazide**
  - *Hordeum vulgare* 6825
  - *Vicia faba* 5000
- **Malic enzyme**
  - *Oryza sativa*
    - gene expression 9199
    - nucleotide sequences 9199
- **Malonyltransferases,** *Dendranthema morifolium* 9875
- **Maltose,** *Oryza sativa* 6045
- ***Malus***
  - centres of diversity 8386
  - chromosome morphology 9574
  - cytotaxonomy 9574
  - genetic resources 8386
  - genetics
    - isoenzymes 4125
    - peroxidases 4125
    - *Venturia inaequalis* 7256, 10731
  - interspecific hybridization 10726
  - nucleotide sequences 7250
    - naringenin 3-dioxygenase 5223
  - pollination 11946
  - precocity 10726
  - rootstocks 4125, 5225, 8380-8381
  - variety classification 4125
  - *Venturia inaequalis* 738, 1893
  - varieties, Royal Splendor 4389
- ***Malus baccata,*** genetic resources 9567
- ***Malus floribunda***
  - genetics
    - isoenzymes 1891
    - *Venturia inaequalis* 6296
  - interspecific hybridization 1891
  - polymorphism, isoenzymes 1891
- ***Malus honanensis,*** rootstocks 8381
- ***Malus hupehensis***
  - apomixis 735
  - embryo culture 735
  - molecular genetics 735
- ***Malus micromalus,*** genetics, *Venturia inaequalis* 7256
- ***Malus prunifolia,*** tissue culture 7254, 11949
- ***Malus pumila***
  - *Alternaria alternata* 3118-3119
  - anatomy 10724
  - apple mosaic ilarvirus 3115
  - ascorbic acid 13046
  - boron 7252
  - *Botryosphaeria bereneriana* 7255
  - *Botryosphaeria dothidea* 3116
  - *Botryosphaeria obtusa* 3116
  - *Botrytis cinerea* 3119
  - breeding 4118, 4122, 5221, 5226, 6293, 7248, 9568-9569, 13045-13046
    - history 3103
  - cold resistance 13051
  - colour 9578
  - combining ability
    - development 3112
    - dormancy 3112
    - precocity 10725
    - seasonal growth 3112
  - copper 7252
  - cryopreservation 6294, 11950
- ***Malus pumila*** *cont.*
  - development 7258
  - drought resistance 10720
  - *Dysaphis plantaginea* 3114
  - ecology 11947
  - enzymes 5234
  - *Epitrimerus pyri* 5239
  - *Eriosoma lanigerum* 7259, 10727
  - *Erwinia amylovora* 3114, 10727-10728
  - ethyl methanesulfonate 10719
  - ethylene 4124
  - fruits 9575, 10721, 10724, 13048
  - gamma radiation 10719
  - gene expression
    - leaves 1890
    - ribulose-bisphosphate carboxylase activase 1890
  - gene mapping 10640
  - genetic engineering, ACC oxidase 732
  - genetic markers 9568
  - genetic resources 6293, 9567
  - genetic transformation 3108, 8379, 9572, 10718
    - ACC oxidase 732
    - insects 4120
    - roots 3111
  - genetic variance
    - development 3112
    - dormancy 3112
    - seasonal growth 3112
  - genetic variation, isoenzymes 4126
  - genetics 4122
    - *Alternaria mali* 10729
    - colour 8382
    - fruits 7248
    - habit 10714
    - isoenzymes 1891, 4125
    - peroxidases 4125
    - spur types 10714
    - *Venturia inaequalis* 3120, 5234, 6296, 7248, 7257, 8390, 10730
  - growth period 8384, 11947
  - growth regulators 4124
  - habit 5230
  - harvesting 11948
  - height 5229
  - *in vitro* culture 4127
  - *in vitro* selection
    - *Phytophthora cactorum* 3122
    - *Venturia inaequalis* 8389
  - induced mutations 1069, 10719
  - insects 3123
  - interspecific hybridization 1891, 10725-10726
  - iron 7252
  - irregular bearing 5230
  - isoenzymes 5234, 9576
  - layering 10720
  - leaves 5232
  - manganese 7252
  - mechanical damage 5231
  - *N*-methyl-*N*-nitrosourea 10719
  - mitochondrial genetics 4123
  - molecular genetics, polygalacturonase 10723
  - mutagens 10719
  - mutations
    - fruits 13047
    - habit 733
  - mycoplasma-like organisms 3115
  - *Nectria galligena* 6296
  - Nematoda 10715
  - nucleotide sequences 7251
    - ribulose-bisphosphate carboxylase 9573
    - ribulose-bisphosphate carboxylase activase 1890
  - *Phomopsis* 3116
  - phosphoglucomutase 5234
  - phosphogluconate dehydrogenase 5234
  - photosynthesis 9575
  - *Phytophthora* 3121, 10733
  - *Phytophthora cactorum* 4127
  - plant composition 1892
  - *Platynota idaeusalis* 10734
  - *Podosphaera leucotricha* 3114, 6296, 10727-10728
  - pollination 5228, 10721, 11946
  - polymorphism, isoenzymes 1891
  - precocity 10726
  - protoplasts 736, 3107
- ***Malus pumila*** *cont.*
  - quality 737, 1892, 5231, 8383-8385, 9579-9580
    - mathematics 11951
  - restriction fragment length polymorphism 4123
  - ripening 4124, 11948
  - rooting capacity 5224, 10720
  - rootstocks 734, 3121, 4125-4126, 5226-5227, 6293, 6295, 10715, 10720, 10733
    - statistics 11945
  - seasonal growth 7252
  - self compatibility 10722
  - sexual reproduction 4122
  - somaclonal variation 3107
    - *Erwinia amylovora* 13052
    - isoenzymes 4126
    - regenerative ability 13049
    - rooting capacity 13049
  - spur types, multivariate analysis 7253
  - tissue culture 3108, 3113, 4120, 5224, 7254, 9577, 10716, 11949-11950, 13050
  - toxic substances 3118
  - transpiration 9575
  - variety classification 4125, 5234, 9576
  - variety trials 730, 13047
  - *Venturia inaequalis* 738, 1069, 3114, 3117, 3119, 5232-5233, 8387-8388, 10727-10728, 10732
  - vigour 10725
  - viruses 7258
  - waterlogging 10733
  - zinc 7252
  - varieties 10717
    - Akita Gold 9570
    - Braeburn 5222
    - Coromandel Red 9571
    - GB63-43 3110
    - HAC9 8377
    - Huashuai 7249
    - Merlijn 7248
    - Pajam 2 Cepiland 5227
    - Pajam 1 Lancep 5227
    - Pink Lady 8378
    - Sunrise 11944
    - Wealthy 731
- ***Malus scheideckeri***
  - apomixis 735
  - embryo culture 735
  - molecular genetics 735
- ***Malus sieversii,*** genetic resources 9567
- ***Mammillaria***
  - radiation 990
  - tissue culture 990
- ***Manduca***
  - *Lycopersicon esculentum* 9555
  - *Lycopersicon hirsutum* 9555
- ***Manduca sexta***
  - *Lycopersicon esculentum,* genetic transformation 4076
  - *Lycopersicon hirsutum* 3079
  - *Nicotiana plumbaginifolia,* genetic transformation 937
  - *Nicotiana tabacum* 2078
- **Manganese**
  - *Glycine max* 1712
  - *Hordeum vulgare* 12477
  - *Malus pumila* 7252
  - *Phalaris aquatica,* genetics 2820
  - *Secale cereale* 12477
  - *Sorghum bicolor* 9176
  - *Triticum aestivum* 11349, 12477
- ***Mangifera***
  - genetic resources 4182, 13102
  - plant introduction 13102
  - taxonomy, books 11133
- ***Mangifera foetida,*** essential oils 13104
- ***Mangifera indica***
  - artificial selection, polyembryony 13103
  - breeding 4183
  - genetic resources 5324, 13102
  - isoenzymes 13103
  - plant introduction 13102
  - quality 5324
  - *Rastrococcus invadens* 12017
  - rootstocks 1917
  - seedlings 13103
  - storage, pollen 4169
  - varieties, Naomi 4184

Mangifera odorata, essential oils 13104
Manihot
  chloroplast genetics, evolution 3021
  restriction fragment length polymorphism 8287
    evolution 3021
Manihot aesculifolia
  gene mapping 3020
  restriction fragment length polymorphism 3020
Manihot caerulescens
  random amplified polymorphic DNA 10618
  restriction fragment length polymorphism 10618
Manihot esculenta
  African cassava mosaic bigeminivirus 3022, 10621-10622
  breeding 1804-1805, 5123-5129, 6228, 6245-6246
  carbohydrates 10619
  carotenoids 7179
  cyanogens 7180
  Erwinia carotovora 9483
  gene banks 5124
  gene expression 5130
    1,4-α-glucan branching enzyme 11848
    starch synthase 4017, 11848
  gene mapping 3020
  genetic resources 1804, 5829, 6228
  genetic transformation 3019, 5130
  Glomerella cingulata 3022
  harvesting 9482
  hydrogen cyanide 10619
  in vitro selection, *Glomerella cingulata* 3024
  interspecific hybridization 10621
  leaves 7176
  linamarin 12950
  molecular genetics, linamarase 9293
  mutations, polyploidy 12949
  nucleotide sequences
    linamarase 9293
    starch synthase 4017
  nutrients 8288-8289
  nutritive value 9482
  phenols 7180
  phosphorus 8288-8289
  photosynthesis 7176
  quality 6245, 12951
  random amplified polymorphic DNA 10618
  restriction fragment length polymorphism 3020, 8287, 10618
  soil water 10620
  tissue culture 3019, 5131
  tubers 12951
  variety trials 5124, 5128-5129, 6246
  vegetative propagation 5128
  Xanthomonas campestris 3022-3023, 7180
  yield correlations 7177-7178
Manihot glaziovii
  interspecific hybridization 10621
  random amplified polymorphic DNA 10618
  restriction fragment length polymorphism 10618
Mannitol, *Vigna radiata, in vitro* selection 592
Mannopine synthase
  Nicotiana tabacum
    gene expression 915, 930
    genetic transformation 915, 930
    molecular genetics 915
Manoyl oxide acid, *Pinus sylvestris,* genetics 4366
Marssonina rosae, *Rosa hybrida* 3383-3384
Maruca vitrata
  Cajanus cajan 10548
  Vigna unguiculata 9435, 9437
  Vigna vexillata 9435
Maternal effects
  Brassica napus, glucosinolates 10848
  Campanula americana 3393
  Chamaecrista fasciculata
    development 2189
    size 2189
  Gossypium hirsutum, oils 8577
  organelles 109
Maternal effects *cont.*
  Passiflora 12020
  Passiflora edulis 12020
  Pinus sylvestris
    cold resistance 13308
    height 13298
  Quercus douglasii
    seedlings 10997
    seeds 10997
  Secale cereale, haploidy 7870
  Zea mays
    photosynthesis 1423
    zein 10271
Mathematics
  angiosperms, evolution 12457-12458
  artificial selection 1083, 5726, 8762, 12333, 12335
    genetic markers 4603
    linkage 4603
  books 5707
  chloroplast genetics 5823
  chromosome pairing 3539
  Compositae, evolution 125
  crossing over 2366
  development 10254
  evolution 125, 127, 1224, 2394, 5821-5825, 6702, 6714, 8856, 8859, 11250
  fertilization 6699-6700
  forest trees
    artificial selection 4370
    clonal variation 13259
    clones 4370
  genetic drift 4606
  genetic engineering, gene flow 87
  genetic markers, quantitative traits 4621
  genetic variance 1173
  genetics 10032
  genotype environment interaction 3472
  Glycine max, flowering 12838
  Gnetales, evolution 12457
  heritability 3533
  Hordeum spontaneum, gene flow 8845
  inbreeding 6634, 8762
  interference 4627
  linkage 8824
    quantitative traits 4621
  male sterility 12446
  Malus pumila, quality 11951
  Musa 13092
  mutations 4625, 5797, 6688
  natural selection 7678
  nucleotide sequences 5762-5763, 5820, 5823
    evolution 8858, 11258-11259
    taxonomy 2405
  outcrossing, evolution 6696
  Phaseolus vulgaris, habit 5027
  Picea abies
    artificial selection 4370
    clones 4370
    development 4372-4373
    habit 4373
    height 4372
  pollination 12449
  population genetics 4605, 5791, 6688
  Quercus petraea, gene flow 8845
  Quercus robur, gene flow 8845
  recombination 2366, 4610
  respiration 10254
  Saccharum officinarum
    climate 6443
    flowering 6443
  Salix viminalis, lethals 13275
  selection 4605
  self pollination, evolution 6696
  sex 12446
  sexual reproduction 6702
  Solanum phureja
    plant composition 8252
    specific gravity 8252
  Solanum stenotomum
    plant composition 8252
    specific gravity 8252
  Solanum tuberosum, quantitative genetics 11807
  Sorghum bicolor
    leaves 1477-1478
    senescence 1479
  stability 3471
    yields 1109
Mathematics *cont.*
  Triticum aestivum, sprouting 12511
  variety trials 3460, 5726, 12350-12351
  Zea mays
    backcrossing 1397
    heterosis 1406
    inbreeding 5945
Matricaria *(see also Chamomilla)*
Matthiola incana
  genetics
    flowers 8682
    growth period 8682-8683
    leaves 8682
  linkage
    flowers 8682
    growth period 8682
    leaves 8682
Maturase
  Solanum tuberosum, molecular genetics 5087
  Zea mays, mitochondrial genetics 10232
Mayetiola destructor
  Aegilops 6805
  Aegilops squarrosa
    gene location 11369
    genetics 11369
  Aegilops × *Triticum*
    gene location 11369
    genetics 11369
  Secale × *Triticum,* chromosome translocation 1336, 11343
  Triticum 6805
    genetics 263
  Triticum aestivum 6803-6804, 6806-6808, 6810
    chromosome translocation 1336, 11343
    gene location 11369
    genetics 8946, 11369
    germplasm releases 8946
Maysin
  Zea mays
    genetics 12685
    modifiers 12685
Mechanical damage
  Arabidopsis thaliana, gene expression 83
  Bryonia cretica, gene expression 4469
  Lupinus 4971
  Lycopersicon esculentum 5181
  Malus pumila 5231
  Phaseolus vulgaris 5036
  Pisum sativum 4971
  Prunus avium 4137
  Rubus idaeus 5268
  Solanum tuberosum 5108, 11833
    artificial selection 4009
    combining ability 1796, 8258
    induced mutations 4009
  Triticum aestivum 4696, 4724
  Vicia faba 4971
  Zea mays 4828
Mechanical harvesting
  Fragaria ananassa, combining ability 3150
  Hippophae rhamnoides 12007
  Lycopersicon esculentum 5181
  Phaseolus vulgaris 5036
Meconopsis paniculata, tissue culture 8686
Meconopsis simplicifolia, tissue culture 1006
Medicago
  cytoplasmic male sterility 474
  dimethyl sulfate 2826
  embryo culture 1654
  ethyl methanesulfonate 2826
  ethyleneimine 2826
  genetic resources 6075
  hybrid seed production 474
  inbreeding 2826
  induced mutations
    cleistogamy 2826
    flowering 2826
    flowers 2826
    self compatibility 2826
  N-methyl-*N*-nitrosourea 2826
  mutagens 2826
  ovule culture 1654
  polymerase chain reaction 1653
  restriction fragment length polymorphism 9281
  seed production 2826
  seeds 12810

Medicago *cont.*
- self compatibility 2826
- self incompatibility, reviews 474
- varieties, Karlu 2781

Medicago ciliaris
- interspecific hybridization 12811
- multivariate analysis, morphology 12811

Medicago falcata
- germplasm releases, tissue culture 3917
- grazing 10429
- nucleotide sequences, cold resistance 4941
- persistence 10429
- regenerative ability 4944
- tissue culture 4944
- unreduced gametes 10423

Medicago intertexta
- interspecific hybridization 12811
- multivariate analysis, morphology 12811

Medicago lupulina
- plant hairs 2835
- *Trialeurodes vaporariorum* 2835
- yield correlations 12812

Medicago noeana, interspecific hybridization 1654

Medicago polymorpha
- altitude 6081
- nodulation 6081
- protoplasts 2829
- soil pH 6081
- temperature 6081
- tissue culture 2829

Medicago rugosa
- interspecific hybridization 1654, 9283
- pollen 9283

Medicago sativa
- *Acyrthosiphon kondoi* 2836
- *Acyrthosiphon pisum* 2836-2837, 11669
- aluminium 9286, 9289
- amino acids 2830
- artificial selection
  - diseases 2823
  - grazing 6079
  - leaves 2823, 2828
  - persistence 6079
  - pests 2823
  - phosphorus 10428
  - pollen competition 11661
  - pollination 6077-6078, 8101
  - salinity 11667
  - stress 6057
- bacteria 4946
- breeding 472, 6057
  - conferences 1074
  - history 11654
- carbohydrates 11667
- carbon 9285
- cell culture 11664
- *Clavibacter michiganensis* 4946, 10420
- cold resistance 10420
- *Colletotrichum trifolii* 10430
- combining ability, aluminium 8105
- *Coprinus psychromorbidus* 10420
- crop mixtures, *Festuca arundinacea* 2832
- diseases 4945
- DNA 8100
- dormancy 10426
- drought resistance 9285
- esterases 6078
- fungi 10432-10433
- *Fusarium oxysporum* 2833
- gamma radiation 1655
- gene expression
  - acetyl-CoA carboxylase 10422
  - acid protease 1657
  - D-alanine transaminase 11657
  - albumins 6107
  - cell division 7050
  - chalcone isomerase 3913, 8103
  - chalcone *O*-methyltransferase 3913
  - cold resistance 477, 8104, 9288
  - disulfide isomerase 3914
  - glufosinate 9973
  - glycine-rich proteins 9288
  - herbicides 9973
  - naringenin-chalcone synthase 8103
  - nitrogen fixation 7051
  - nodulation 3918-3919, 7051, 8103, 11665, 12813
  - nodulins 2824, 11666
  - nutritive value 8133

Medicago sativa *cont.*
- gene expression *cont.*
  - phosphoprotein phosphatase 11659
  - proteins 8133
  - *Rhizobium* 3918, 7050, 7071, 11665, 12813
  - symbiosis 7071
  - vicilin 6107
- gene mapping 7048
- genetic engineering, caffeic acid *O*-methyltransferase 8559
- genetic resources 6057, 9287
- genetic transformation 8098, 12809
  - albumins 6107
  - cold resistance 6084
  - glufosinate 9973
  - glufosinate acetyltransferase 7688
  - herbicides 9973
  - nodulation 3918
  - nodulins 11666
  - nutritive value 8133
  - proteins 8133
  - *Rhizobium* 3918
  - superoxide dismutase 6084
  - vicilin 6107
- genetic variance 11660
  - *Verticillium albo-atrum* 2834
- genetic variation, isoenzymes 8102
- genetics
  - conferences 1074
  - nodulation 3920
  - plastids 1656
  - *Rhizobium* 7071
  - senescence 1655
  - symbiosis 7071
- germplasm releases
  - diseases 478-479, 9290-9291, 11668
  - insects 9290
  - leaves 11663
  - pests 478-479, 9291
  - plant hairs 9291
  - *Verticillium albo-atrum* 11668
- grazing 10429
- heterozygosity 9282, 11654
- immunology, disulfide isomerase 3914
- *in vitro* selection
  - germination 3921
  - oxalic acid 6061
  - salinity 3921
  - *Sclerotinia sclerotiorum* 6061
  - *Sclerotinia trifoliorum* 6061
- inbreeding depression 11654
- induced mutations, senescence 1655
- interspecific hybridization 1654, 9283
- isoenzymes 11664
- leaves 2830, 9284
- linkage 3911
- mixoploidy 8100
- molecular genetics
  - aspartate aminotransferase 3915
  - glutamate synthase 3910
  - isoenzymes 3915
  - nodulation 3919
  - nodulins 2824
  - ubiquitin carrier protein 473
- nitrates 2831
- nucleotide sequences
  - acetyl-CoA carboxylase 10422
  - D-alanine transaminase 11657
  - annexins 10421
  - chalcone isomerase 8103
  - chalcone *O*-methyltransferase 3913
  - cold resistance 8104
  - naringenin-chalcone synthase 8103
  - nodulation 8103
  - phosphoprotein phosphatase 11659
- nutritive value 9284, 10427
- outcrossing 6078, 11654
- peroxidases 6078, 11664
- persistence 10424, 10429
- photosynthesis 2828
- pollen 9283
- pollen competition 1236
- polyploidy 9282, 11660
- proline 6083
- proteins 2830, 4939
- random amplified polymorphic DNA 3911, 7048
- regenerative ability 475
- restriction fragment length polymorphism 7048, 9282

Medicago sativa *cont.*
- restriction fragment length polymorphism *cont.*
  - plant introduction 6076
- *Rhizoctonia solani* 2833
- rhizomes 7049
- roots 7049
- salinity 6082-6083, 9287
- saponins 2831
- *Sclerotinia trifoliorum* 480, 8106
- seed production 4943
- self pollination 11662
- soil pH 9289
- soil toxicity 9289
- somaclonal variation, DNA 3912
- *Therioaphis trifolii* 2836-2837
- tissue culture 475-476, 1658, 10428
  - techniques 6707
- toxic substances 9286, 9289
- unreduced gametes 2827
- variety trials 2821-2822, 4940, 7047
- *Verticillium albo-atrum* 1659, 2833, 10431
- water balance 2828, 9285
- yield components 4939
- varieties 1649-1651, 2823, 3908-3909, 4646, 10392
  - AC Nordica 10420
  - Aquarius 8097
  - Quadrella 1652
  - Resistar 9280

Medicago scutellata
- growth period 3916
- interspecific hybridization 1654, 9283
- morphology 3916
- pollen 9283
- taxonomy 3916

Medicago truncatula
- DNA 8100
- gene expression
  - *Glomus versiforme* 10425
  - glutamate-ammonia ligase 2825
  - nodulation 3918
  - *Rhizobium* 3918
- genetic engineering
  - nodulation 3918
  - *Rhizobium* 3918
- mixoploidy 8100
- nucleotide sequences
  - nodulins 8099
  - proline-rich proteins 11658
- varieties
  - Caliph 11655
  - Mogul 11656

Medicago varia
- cell culture 12814
- cold resistance 6080
- gene expression, phosphoprotein phosphatase 11659
- *in vitro* selection, salinity 12814
- plant composition 6080
- regenerative ability 4944
- seed production 4943
- tissue culture 4944

***Medicago* (×) *Onobrychis*,** protoplast fusion 3536, 3889, 4942

Medicinal plants
- gene banks 4528
- genetic resources 1227, 4528, 4530
- genetic transformation 9910
- *in vitro* culture 1049, 12283
- regenerative ability 12283
- storage, seeds 1039

Megalurothrips sjostedti, Vigna unguiculata 585

Meiogyne, taxonomy 11016

Meiosis 11239
- (*see also* Chromosome pairing)
- *Aegilops* × *Secale* 1382
- *Amaranthus* 1622
- *Brassica alboglabra* 12036
- *Brassica tournefortii* 12036
- *Camellia* 11038
- *Coprinus cinereus* 1065
  - mutations 2245
- *Crepis capillaris* 105
- *Helianthus annuus*
  - gene expression 10859
  - mitochondrial genetics 10859
- *Hordeum vulgare,* techniques 5911
- *Lilium longiflorum* 2208

  Nicotiana knightiana, nucleocytoplasmic interaction 13215
  Nicotiana raimondii, nucleocytoplasmic interaction 13215
  Nicotiana tabacum, nucleocytoplasmic interaction 13215
  Phoenix dactylifera 4187
  Pinus sylvestris 2133
  Secale cereale 12643
    genetics 11408
    mutations 11408
  Solanaceae 1234
  Tribolium ciliare 8087
  Tribolium echinatum 8087
  Tribolium hispidum 8087
  Tribolium utriculosum 8087
  Triticum aestivum 202, 10098
    gene expression 7748
    nucleotide sequences 7748
  Zea mays 1412, 9065, 10247, 10251, 11449
    genetics 12667
    mutations 1411, 1413, 3738, 7911, 12667
Meiotin-1, *Lilium longiflorum* 2208
Melaleuca alternifolia
  genetic variation, isoenzymes 9936
  outcrossing 9936
Melampsora
  Populus, somaclonal variation 4350
  Salix viminalis, genetics 3347
Melampsora allii-populina
  Populus deltoides
    genetics 4351
    heritability 8611
Melampsora larici-populina
  Populus 7447
  Populus deltoides 12191
    genetics 4351
    heritability 8611
  Populus trichocarpa 12191
Melampsora lini
  Linum usitatissimum
    flax
      mutations 956
      transposable elements 956
    linseed 13142
Melampsora occidentalis
  Populus deltoides 8607
  Populus trichocarpa 8607
Melanagromyza obtusa, *Cajanus cajan* 580
Melanaspis glomerata, *Saccharum officinarum* 5421
Melanins, *Helianthus* 7354
Melanoplus differentialis, *Zea mays* 349
Melanoplus sanguinipes, *Triticum aestivum* 4747
Melilotus
  chemotaxonomy 6091
  cytotaxonomy 6091
Melilotus alba
  chromosome morphology 6091
  ethyl methanesulfonate 6090
  gene expression, chlorophyll 6090
  genetics, chlorophyll 484
  induced mutations, chlorophyll 6090
  mutagens 6090
  mutations
    chlorophyll 9307
    nodulation 3939
  varieties 4646
Melilotus officinalis
  polymerase chain reaction 1653
  varieties 4646
Melilotus suaveolens, chromosome morphology 6091
Melocanna
  evolution 1063
  proteins 1063
Meloidogyne
  Capsicum chacoense, genetics 711
  Capsicum chinense, genetics 711
  Capsicum frutescens, genetics 711
  Cicer arietinum 8141
  Cucumis melo, somaclonal variation 1857
  Cucumis metuliferus 3101
  Cucumis sativus 3101, 10710
  Lycopersicon esculentum
    gene mapping 682, 5191
    linkage 7234
    polymerase chain reaction 7234
Meloidogyne *cont.*
  Lycopersicon esculentum cont.
    random amplified polymorphic DNA 7234
    restriction fragment length polymorphism 682
  Lycopersicon peruvianum, gene mapping 5191
  Nicotiana tabacum, gene expression 4314
  Pisum sativum 8141
  Solanum, tuberous species 11842
  Solanum macrocarpon 695
  Solanum sisymbriifolium 695
  Solanum torvum 695
  Solanum tuberosum 11842
  Solanum warscewiczii 695
  Vicia faba 8141
Meloidogyne arenaria
  Arachis, germplasm releases 12091
  Arachis hypogaea, germplasm releases 12091
Meloidogyne chitwoodi
  Solanum bulbocastanum 6244
  Solanum tuberosum 6244
Meloidogyne graminicola, *Oryza* 8054
Meloidogyne hapla
  Cannabis 6528
  Rosa canina 12242
  Rosa moyesii 12242
  Rosa multiflora 12242
  Rosa noisettiana 12242
Meloidogyne incognita
  Arabidopsis thaliana
    gene expression 3531
    induced mutations 5788
  Glycine max 9327
  Gossypium hirsutum 3327
  Lycopersicon esculentum 679, 3062, 6272, 10676
    gene expression 10686
    molecular genetics 6281
    nucleotide sequences 10686
  Nicotiana tabacum 10940
    gene expression 3531
  Piper nigrum 9931
  Prunus 11943
    peaches, genetics 11985
  Prunus persica 7281
  Vitis vinifera 11943
Meloidogyne javanica
  Nicotiana tabacum, gene expression 4313
  Prunus 11943
  Vitis vinifera 11943
  Zea mays 4852
Mentha
  breeding 6434
  genetic resources 6434
Mentha arvensis
  somaclonal variation 3434
  varieties
    Arka 6613
    Neera 6613
Mentha piperita
  chromatin 7555
  DNA 7555
  essential oils 1058
  menthol 1058
  menthone 1058
  plant hairs 7555
Menthol, *Mentha piperita* 1058
Menthone, *Mentha piperita* 1058
Mercuric chloride, *Zea mays,* molecular genetics 5986
Mesembryanthemum crystallinum
  chloroplast genetics 12279
  gene expression
    malate dehydrogenase 8730
    ribulose-bisphosphate carboxylase 4464
    salinity 4464, 8730
  molecular genetics, malate dehydrogenase 8730
  nucleotide sequences 12279
Messenger RNA
  molecular genetics 1141
  nucleotide sequences 9986
  transposable elements 9986
Metabolism, *Nicotiana tabacum,* genetic engineering 8552
Metallothionein
  Arabidopsis thaliana
    gene expression 10028
    nucleotide sequences 10028
  Nicotiana tabacum
    gene expression 13202, 13233
    genetic transformation 6494, 7391, 13202, 13233
    genetics 6494
  Triticum aestivum, gene expression 186
Metals, *Deschampsia cespitosa,* natural selection 11653
Metham, *Hordeum vulgare* 2611
Methionine
  Arabidopsis thaliana
    genetics 7640
    mutations 7640
  Atylosia × Cajanus, heterosis 577
  Cicer arietinum 6203
Methotrexate
  Datura fastuosa 6606, 8734
  Nicotiana tabacum
    genetic transformation 7392
    linkage 7392
Methyl jasmonate
  Arabidopsis thaliana
    gene expression 10030
    induced mutations 10030
  Lycopersicon esculentum 10030
  Nicotiana tabacum
    gene expression 3279, 13234
    genetic transformation 3279
Methyl ketones, *Lycopersicon hirsutum* 3079
Methyl methanesulfonate
  Crotalaria juncea 961
  Hordeum vulgare 10168
  Tradescantia 12256
***N*-methyl-*N'*-nitro-*N*-nitrosoguanidine,** *Nicotiana plumbaginifolia* 13230
***N*-methyl-*N*-nitro-*N*-nitrosoguanidine,** *Pleurotus ostreatus* 4501
***N*-methyl-*N*-nitrosourea**
  Alhagi kirghisorum 5669
  Hordeum vulgare 4760, 5904, 5910
  Lens culinaris 1745
  Malus pumila 10719
  Medicago 2826
  Oryza sativa 6989, 12736, 12749
  Secale cereale 2653
  Solanum nigrum 7540
  Triticum aestivum 8875
  Vigna mungo 1767
Methyltransferases
  Arabidopsis thaliana, nucleotide sequences 7632, 12406
  Zea mays
    gene expression 325
    molecular genetics 325
5-Methyltryptophan, *Zea mays,* induced mutations 2683
Metopolophium dirhodum
  Aegilops 11372
  Triticum aestivum 1335
Metoxuron
  triticale 3666
  Triticum aestivum 3666
  Triticum durum 3666
Metribuzin, *Solanum tuberosum* 12938
Metrosideros, taxonomy 4360
Metrosideros polymorpha, genetic variation, isoenzymes 7454
Metrosideros queenslandica, taxonomy 4360
Metroxylon sagu
  genetic resources 2239
  molecular genetics 13399
  tissue culture 13399
Metsulfuron-methyl, *Pisum sativum, in vitro* selection 7120
Metteniusa cogolloi, taxonomy 13114
Mezilaurus triunca, taxonomy 8627
Michelia jiangxiensis, taxonomy 4401
Microcitrus
  aspartate aminotransferase 9627
  isoenzymes 9627
  taxonomy 9627
Micropropagation (*see In vitro* culture; Tissue culture)
Microsphaera diffusa
  Glycine max 9370
    genetics 9371

Milghitea melanoleuca, *Bixa orellana* 11114
Milium, chromosome morphology 2810
Milium montianum
  chromosome addition 467
  cytology 467
  polyploidy 467
Millets
  forage 3564
  in vitro culture 5847
Milling quality
  Hordeum
    linkage 5849
    pleiotropy 5849
  Triticum
    linkage 5849
    pleiotropy 5849
Mimulus guttatus
  chloroplast genetics 999
  copper 1011, 8692
  genetic variance, inbreeding depression 9866
  genetics
    flowers 9873
    inbreeding depression 9866
    isoenzymes 999
    self compatibility 9873
  gynoecium 1011
  heritability
    copper 4432
    toxic substances 4432
  inbreeding depression 2172, 4413
  molecular genetics, taxonomy 5643
  natural selection
    copper 4432
    toxic substances 4432
  outcrossing 2172
  pollen germination 8692
  sexual reproduction 999, 13354
  toxic substances 1011
Mimulus micranthus
  chloroplast genetics 999
  genetics, isoenzymes 999
  sexual reproduction 999
Minerals
  Dactylis glomerata 8065
  Phyllanthus emblica 4194
  Zea mays 1424
Minthostachys andina, essential oils 9940
Miscanthus
  chloroplast genetics, evolution 7374
  chromosome morphology 9267
  chromosome pairing 9267
  hybrid varieties 9267
  photosynthesis 9278
  restriction fragment length polymorphism, evolution 7374
  stress 9278
Miscanthus sacchariflorus, interspecific hybridization 9267
Miscanthus sinensis
  chromosome morphology 9267
  chromosome pairing 9267
  interspecific hybridization 9267
  tissue culture 3900
Miscanthus* × *Saccharum
  chromosome number 2008
  colchicine 2008
  intergeneric hybridization 2008
  polyploidy 2008
  somaclonal variation 2008
Mitochondria
  Glycine max, restriction fragment length polymorphism 6129
  Nicotiana sylvestris 2065
    gene expression 9726
  Nicotiana tabacum 7394
    gene expression 9726
  Nicotiana tomentosiformis, gene expression 9726
  Oryza sativa, gene mapping 1526
  Solanum tuberosum 6238
  Vigna unguiculata 10552
Mitochondrial genetics 3494, 6659, 9978, 12389
  Aegilops, genomes 2571
  Aegilops longissima 7695
  Aegilops triuncialis, genomes 2571
  Agaricus bisporus 2241, 4494
  Agrocybe aegerita 4492
  Allium porrum, cytoplasmic male sterility 11181
Mitochondrial genetics *cont.*
  Allium schoenoprasum, cytoplasmic male sterility 5143, 9507
  angiosperms, evolution 9977
  Arabidopsis thaliana 10001, 12405
    acyl carrier protein 10009
    apocytochrome *b* 62
    ribosomes 62
  Beta maritima 5433
    cytoplasmic male sterility 2031, 10907
  Beta vulgaris
    sugarbeet 4278
      cytoplasmic male sterility 4279, 7378, 9706-9707, 10907
  Brassica campestris 7326
    turnips, NADH dehydrogenase 618, 8311
  Brassica juncea 7326
    cytoplasmic male sterility 8476
  Brassica napus 7326
    rape 823, 4564, 10837
      adenosinetriphosphatase 830
      cytoplasmic male sterility 830, 4211, 5361-5362, 9665
  Brassica nigra 7326
  Brassica oleracea 7326
  Brassica oxyrrhina, cytoplasmic male sterility 8476
  Cichorium, taxonomy 9532
  Cichorium intybus, cytoplasmic male sterility 5161
  Cichorium (×) *Helianthus,* cytoplasmic male sterility 5161
  Citrus 9626
  Coprinus cinereus 1065
  cytoplasmic male sterility 3554
    reviews 8804
  Dasypyrum villosum 3594, 7695
  Elymus hispidus 3594
  evolution 2346, 9976, 10232
  Fortunella 9626
  Glycine latifolia 12833
  Glycine max 10469
    adenosinetriphosphatase 1698
  Helianthus annuus 4230
    anthers 10859
    cytoplasmic male sterility 4233, 10858-10859, 12059
    meiosis 10859
    transfer RNA 12058
  Helianthus petiolaris, cytoplasmic male sterility 10858
  Hordeum vulgare 7695
  Lactuca sativa, NADH dehydrogenase 8311
  Larix, cell culture 13320
  Leguminosae
    cytochrome-*c* oxidase 9977
    evolution 9977
  Lotus (×) *Oryza* 1672
  Lotus (×) *Oryza* 12730
  Lycopersicon (×) *Nicotiana* 4058
  Malus pumila 4123
  NADH dehydrogenase 9980
  Nicotiana glutinosa 8550
  Nicotiana tabacum 8550
  Oenothera 11058
    NADH dehydrogenase 8670
  Oenothera berteriana 4418, 8672
    transfer RNA 11059
  Oryza sativa 1526, 6018, 11572-11573, 12718
    apocytochrome *b* 392
    cytoplasmic male sterility 2732, 3826, 6021
  Pennisetum glaucum, cytoplasmic male sterility 11536, 12701
  Petunia 11076
    NADH dehydrogenase 9977
  Petunia hybrida 1017, 3492
    cytoplasmic male sterility 1018, 6584, 12266
    recombination 1018
  Petunia parodii, cytoplasmic male sterility 6584
  Phaseolus coccineus, cytoplasmic male sterility 11744
  Phaseolus vulgaris 11802
    cytoplasmic male sterility 2887, 5024, 10505, 11744
Mitochondrial genetics *cont.*
  Pisum sativum 6169
    adenosinetriphosphatase 2905
  Poncirus 9626
  Raphanus sativus 9996
    cytoplasmic male sterility 8295, 12962
  reviews 48, 6669, 7612, 11177-11178
  Saccharinae, evolution 13178
  Saccharum barberi 879
  Saccharum officinarum 879
    evolution 13178
  Saccharum robustum 879
  Saccharum sinense 879
  Saccharum spontaneum 879
  Secale cereale 1245, 11405
    DNA polymerase 3694
  Solanum, apocytochrome *b* 142
  Solanum tuberosum 10567, 11802
    evolution 9976
    formate dehydrogenase 606
    NADH dehydrogenase (ubiquinone) 10569, 11803
    ribosomes 12931
  Sorghum, cytoplasmic male sterility 10307
  Sorghum bicolor 6916
  techniques 4564, 9979
  Theobroma cacao, evolution 8537
  Thymus vulgaris 4484
  triticale 10059
    adenosinetriphosphatase 8991
    cytoplasmic male sterility 8991
  Triticum, apocytochrome *b* 142
  Triticum aestivum 1245, 2455, 3594, 5857, 6745, 7695, 9996, 10059
    cytoplasmic male sterility 7756, 10088
    NADH dehydrogenase 10079
    NADH dehydrogenase (ubiquinone) 3590, 10080
    recombination 6743
    somaclonal variation 6743
  Triticum durum 7695
  Triticum timopheevii 10059
    cytoplasmic male sterility 7756
  Zea luxurians, plasmids 4814
  Zea mays 315, 3492, 5959, 7896, 9027, 9979, 10266
    adenosinetriphosphatase 311
    cytochrome-*c* oxidase 314
    cytoplasmic male sterility 311, 1418, 3741, 3745
    maturase 10232
    NADH dehydrogenase 9977, 10232
    NADH dehydrogenase (ubiquinone) 7886
Mitosis (*see* Cell division)
  Nicotiana sylvestris 10934
Mixoploidy
  Aegilops × *Secale* 1382
  Arabidopsis thaliana 3514
  Asparagus officinalis 4047
  Chenopodium 3867
  Cucumis sativus 3098
  Larix decidua 8650
  Medicago sativa 8100
  Medicago truncatula 8100
Mniochloa, taxonomy 6616
Models, recombination 12432
Modifiers
  Capsicum annuum
    bentazone 4102
    herbicides 4102
  Zea mays
    endosperm 3754
    lysine 339, 1447
    maysin 12685
    quality 339
    zein 1447, 3754, 9130
Moisture content
  Capsicum annuum 9557, 10694
  Musa 8442
  Oryza sativa 1550, 3828
  Triticum aestivum 1301, 4696
  Zea mays
    artificial selection 9116
    combining ability 340
    inbreeding 340
Molecular genetics 49, 1131, 1142, 1144, 1170, 2323-2325, 2328, 2330, 2332-

Molecular genetics *cont.*
    2333, 4560, 4565, 5751-5752, 5759, 5766, 7598, 7608, 7610, 7614, 8790-8791, 8796, 9994
  (*see also* Chloroplast genetics; Mitochondrial genetics)
  Abies alba 12221
  ACC oxidase 3484
  ACC synthase 3484
  Adiantum capillus-veneris
    ribulose-bisphosphate carboxylase 8726
    taxonomy 8726
  Aegilops 7824, 8881
  Agaricus bisporus 4491, 5681, 8748
    enzymes 4503
    glyceraldehyde-3-phosphate dehydrogenase 1064
  Agrobacterium 5757
  Agrobacterium tumefaciens 1148-1149, 2319-2321, 5756
  Agrocybe aegerita 2242, 4493
  Allium ascalonicum, lectins 632
  Allium cepa
    Botrytis squamosa 1817
    lectins 632
    Peronospora destructor 1817
  Allium porrum, lectins 632
  Allium roylei
    Botrytis squamosa 1817
    Peronospora destructor 1817
  Allium sativum, chitinase 8299
  Alnus glutinosa
    Frankia 4361
    nodulation 4361
  alternative oxidase 12388
  Amaranthus cruentus 6055
  Anemia phyllitidis, phytochrome 11096
  Anemone, taxonomy 13364
  angiosperms
    evolution 3561-3562
    glyceraldehyde-3-phosphate dehydrogenase 3562
  anthers 1196
  Antirrhinum majus
    chlorophyll 3407
    flowers 6581
    proteins 1013
    self incompatibility 3406
  Apium graveolens 4041
  Arabidopsis 5777
    ribosomal DNA 1151
  Arabidopsis thaliana 63, 3500-3501, 5773, 7607, 11209-11210, 11212, 11223
    acyl-CoA desaturase 1154, 13122
    aminoimidazole ribonucleotide synthetase 10005
    auxins 3512
    binding proteins 1155, 7623
    calcium binding proteins 59
    calnexin 3527
    cell division 10017
    cyclophilin 12403
    development 1162
    DNA binding proteins 60, 65
    DNA photolyases 3512
    embryology 1162
    enzymes 66
    ethylene 76, 3512
    flowering 2358
    β-glucanase 5776
    glucose-6-phosphate isomerase 3391
    glycinamide ribonucleotide transformylase 10005
    growth regulators 76, 3512, 7647
    light 3512
    lipids 12382
    myosin 10008
    nutrients 3523
    phosphates 3523
    phosphoribosylamine-glycine ligase 10005
    plant embryos 1162
    plant hairs 8816
    protein kinase 67, 4580, 10017
    proteinases 3504
    Pseudomonas syringae 1166, 4596, 5787
    pyrroline-5-carboxylate reductase 3528
  Arabidopsis thaliana cont.
    ribonucleases 4582
    salinity 3528
    senescence 4582
    stress 3512
    translocation 3523
    transposable elements 1158
    tubulin 6673
    turnip crinkle carmovirus 7661
  Arachis hypogaea
    peanut stripe potyvirus 5404
    phytoalexins 5740
  Artocarpus integer, lectins 4193
  ascorbate peroxidase, reviews 8783
  Asparagus officinalis, asparagine synthetase 656
  Astragalus, evolution 3937
  auxins 11188
  Avena sativa
    actin 5931
    phytochrome 5930-5931
    tubulin 5931
  Beta, evolution 7381
  Beta procumbens 2029
  Beta vulgaris 2029
    sugarbeet 8525, 12114
  Betula pendula, plant embryos 971
  books 11137, 12316, 12320-12321, 13414
  Botrypus strictus
    ribulose-bisphosphate carboxylase 8726
    taxonomy 8726
  Brachypodium distachyon, evolution 6735
  Brassica, self incompatibility 1946, 6344, 12448
  Brassica alboglabra
    kinases 4030
    self incompatibility 3553, 4030
  Brassica campestris
    glycoproteins 9663
    ribosomal DNA 3194
    self incompatibility 9663
    turnips, cauliflower mosaic caulimovirus 5122
  Brassica napus 4209
    self incompatibility 6344
    rape 1934
      acyl-CoA desaturase 1154
      Leptosphaeria maculans 6353
      lipids 12382
      oleosins 13294
      Plasmodiophora brassicae 6353
      Pyrenopeziza brassicae 6353
      senescence 13134
  Brassica oleracea, self incompatibility 3042
  Bromus inermis, evolution 6735
  Bromus secalinus
    abscisic acid 12520
    dormancy 12520
    growth regulators 12520
  Catharanthus roseus, cytochrome P-450 5661
  cereals 2426, 3574-3575
    cold resistance 7713
    evolution 5840
  chitinase 5741
  chlorophyll *a*/*b* binding protein 8860
  Cicer arietinum 8207
    Ascochyta rabiei 6209
    NADPH:isoflavone oxidoreductase 6209
  Clarkia lewisii, glucose-6-phosphate isomerase 3391
  computer programming 2334
  conferences 8752
  Coprinus bilanatus 8748
  Coprinus cinereus 8748
  Craterostigma plantagineum
    desiccation 6577, 8674
    drought resistance 12621
  crops
    ACC synthase 661
    amino acids 10056
    diseases 9962
    heat shock proteins 6646
    herbicides 9962
    histones 9982
    nitrite reductase 5836
  crops *cont.*
    nutritive value 10056
    phenylalanine ammonia-lyase 5734
  Cucumis sativus, heat shock proteins 11927
  Cucurbita
    ACC synthase 661
    albumins 3093
    chaperonins 1860
  Cucurbita pepo, ACC synthase 6286
  Daucus carota 617
    β-fructofuranosidase 10613
    glycoproteins 4013
    tissue culture 1800, 4015
  dehydrin 143
  development 3566, 4633, 10054
    books 9948
    reviews 11272
  Dianthus caryophyllus
    ethylene 4425
    flowers 4425
    growth regulators 4425
    senescence 4425
  dictionaries 12313
  diseases 5735-5736
  DNA binding proteins 1130, 12320
  drought resistance 11273
  Dryopteris filix-mas, phytochrome 11096
  ecology 9990
  edible fungi 13400
  Elymus × *Leymus,* genomes 8077
  Elymus × *Psathyrostachys,* genomes 8077
  endosperm 3566
  enzymes, books 12319
  Epilobium
    ribosomal DNA 13363
    taxonomy 13363
  ethylene 1134, 3484
  evolution 113, 1221, 5819, 5825, 6711, 11251, 11256, 12455-12456
    ribozymes 8805
    statistics 3340
  fatty oil plants 13121
  fertilization 1195
  flowering 1120
    books 2265
  flowers 5749
  forest trees, conferences 7567
  fungi 2307
  genetic distance 6660
  Ginkgo biloba
    chlorophyll *a*/*b* binding protein 4385
    taxonomy 8629
  glutathione reductase, reviews 8783
  Glycine max 63, 9336, 10466, 11209
    acyl-CoA desaturase 1154
    adenosinetriphosphatase 8144
    coproporphyrinogen oxidase 507
    4-coumarate:CoA ligase 525
    dihydrokaempferol 4-reductase 12842
    ferric leghaemoglobin reductase 8146
    lipoxygenase 8148
    naringenin-chalcone synthase 12842
    nodulation 521, 3948, 10468, 11728
    Phytophthora megasperma 525
    proline-rich proteins 11702
    vitronectin 8708
  Gnetum, evolution 3561
  Gossypium hirsutum 2082
    chlorophyll *a*/*b* binding protein 942
  Gossypium tomentosum, evolution 950
  grain legumes 8207
  growth regulators 1134, 3484
  gymnosperms, evolution 3561
  heat resistance 12372
  heat shock proteins 12372
  Helianthus annuus 6357
    flowers 3217
  Hevea brasiliensis, superoxide dismutase 965
  Hordeum vulgare 3573, 11380, 12591
    ACP synthase 1343
    α-amylase 5906
    chromosome morphology 2376
    cold resistance 7713
    drought resistance 12621
    elongation factors 272
    endosperm 12600
    Erysiphe graminis 290, 5925-5926
    β-glucanase 1344

Hordeum vulgare cont.
  glutamate-ammonia ligase 1340
  Leptosphaeria nodorum 5922
  nutritive value 1250
  pathogenesis-related proteins 290
  peroxidases 5926
  photosynthesis 2430, 2602, 2604
  proteins 1250
  quality 7711
  ribulose-bisphosphate carboxylase 5909
Ipomoea batatas, β-amylase 9484
Lathyrus, ribosomal DNA 6098
Lathyrus sativus
  chromosome morphology 2376
  ribosomal DNA 6099
Leersia oryzoides
  evolution 1645
  taxonomy 1645
Leersia virginica
  evolution 1645
  taxonomy 1645
Leguminosae
  lectins 2850
  stress 6112
Lentinula edodes, taxonomy 13407
Leymus, genomes 8077
Lilium 7526
Lilium longiflorum, vitronectin 8708
Linum usitatissimum, flax 12165
lipids 12382
Lolium, allergens 1627
Lotus japonicus 1677
Luziola bahiensis
  evolution 1645
  taxonomy 1645
Luziola fluitans
  evolution 1645
  taxonomy 1645
Lycopersicon esculentum 668, 3579, 11878
  ACC synthase 661, 6286
  alcohol dehydrogenase 1830
  arginine decarboxylase 4063
  binding proteins 665
  desiccation 5172
  β-fructofuranosidase 4057
  fruits 10671, 13006
  Fulvia fulva 7231
  Fusarium oxysporum 6277
  histones 8333
  injuries 13015
  Meloidogyne incognita 6281
  pathogenesis-related proteins 664
  polygalacturonase 672
  proteinase inhibitors 13015
  Pseudomonas solanacearum 8338
  Pseudomonas syringae 1843, 3067, 9551
  ripening 672, 675, 4063, 5172, 10671, 13006
  variety classification 12999
Lycopersicon peruvianum, heat shock proteins 10674
Malus hupehensis 735
Malus pumila, polygalacturonase 10723
Malus scheideckeri 735
Manihot esculenta, linamarase 9293
Medicago sativa
  aspartate aminotransferase 3915
  glutamate synthase 3910
  isoenzymes 3915
  nodulation 3919
  nodulins 2824
  ubiquitin carrier protein 473
Mesembryanthemum crystallinum, malate dehydrogenase 8730
messenger RNA 1141
Metroxylon sagu 13399
Mimulus guttatus, taxonomy 5643
Narcissus papyraceus, pollen 8706
Nematoda 3482
Nicotiana 5446
  photosynthesis 932
  ribonucleases 6485
  self incompatibility 6485
Nicotiana alata, self incompatibility 3282, 12448
Nicotiana plumbaginifolia 7611, 8549
  extensin 12135
  transposable elements 923
Nicotiana plumbaginifolia cont.
  viruses 6480
Nicotiana tabacum 913, 2052, 3579, 5448, 8548-8549
  catalase 3512
  catechol *O*-methyltransferase 2057
  chitinase 7404
  flowers 2066
  gynoecium 2066
  mannopine synthase 915
  photosynthesis 6474
  Phytophthora infestans 7404
  pollen 2061
  proteinase inhibitors 6505
  ribozymes 12127
  ribulose-bisphosphate carboxylase 917
  source sink relations 6232
  tobacco mosaic tobamovirus 3309, 6505, 6507
  transposable elements 922, 924, 2058
nitrogen, reviews 12395
nucleases 12440
nuclei, reviews 11237
nutrients, reviews 12395
Olea europaea 13156
Olyra latifolia
  evolution 1645
  taxonomy 1645
organelles 11170
Oryza 3809, 8002
  glutelins 11582
  transposable elements 4885
Oryza sativa 1525, 1527, 2730, 3802, 3809, 6019, 8005, 10334, 10355, 11571, 12715
  ACC synthase 444
  α-amylase 10359
  binding proteins 403
  catalase 3810
  databases 11568
  development 393, 10372
  DNA binding proteins 12674
  evolution 6735
  flowering 10372
  heat shock proteins 9233
  lactate dehydrogenase 391
  multiple genes 11554
  peroxidases 8012
  phytochrome 5930
  prolamins 11555
  ribosomes 402
  ribulose-bisphosphate carboxylase 398
  roots 8004
  starch synthase 1528
  tissue culture 11563
  transposable elements 4885
  variety classification 3803
Osmunda cinnamomea
  ribulose-bisphosphate carboxylase 8726
  taxonomy 8726
Osmunda regalis 1031
Papaver rhoeas, self incompatibility 3428
Paphiopedalum insigne, chromosome morphology 2376
Parthenium argentatum, hydroxymethylglutaryl-CoA reductase 2108
pathogens 5730, 9964
  books 2262
  reviews 33
Persea americana, ripening 3180
pests 11169
Petroselinum crispum
  naringenin-chalcone synthase 12298
  Phytophthora megasperma 3435, 5674
  tyrosine decarboxylase 8740
Petunia 4563
  anthers 2198
  colour 2198
  cytoplasmic male sterility 6585
  flavonoids 2198
  male sterility 2198
  ribonucleases 6485
  self incompatibility 6485
Petunia hybrida
  alcohol dehydrogenase 2199
  development 3416
Petunia hybrida cont.
  flowers 3416
  hypoxia 2199
  proteins 1015
  rhamnosyltransferases 3413
  self incompatibility 1235, 3414
Phanerochaete chrysosporium, glyceraldehyde-3-phosphate dehydrogenase 1064
phaseolin 13206
Phaseolus vulgaris
  phaseolin 8172
  phenylalanine ammonia-lyase 5734
Phleum, taxonomy 12799
phosphoenolpyruvate carboxylase 8799
photosynthesis 8860
phytoalexins 2350
phytochrome 3489
Picea abies, cinnamyl-alcohol dehydrogenase 986
Pinus luchuensis, taxonomy 8629
Pinus ponderosa, oleosins 13294
Pinus sylvestris
  nucleolus organizer 2131
  phytoalexins 5740
Pisum sativum
  Ascochyta pisi 2913
  aspartate carbamoyltransferase 10518
  aspartate transcarbamoylase 547
  carbonate dehydratase 545
  chitinase 2913
  chloroplasts 11754
  diseases 6196
  DNA binding proteins 548
  glutathione reductase 6173
  glycine decarboxylase 1731
  heat shock proteins 6193
  lectins 5044, 11750
  lipoxygenase 6183
  nodulins 8184
  photorespiration 1731
  photosynthesis 2602
  proteins, reviews 6180
  ribulose-bisphosphate carboxylase 9402
  seeds, reviews 6180
  starch, reviews 6180
  stress 11751
plant embryos 4633
plants, reviews 7604
Podocarpus nakaii, taxonomy 8629
polyploidy 113
Populus, taxonomy 5542
Populus deltoides, injuries 974
Populus trichocarpa, injuries 974
proteins 4570
Prunus cerasifera 13061
Prunus persica
  fruits 4141
  polygalacturonase 10758
  ripening 4141, 10758, 13068
Prunus spinosa 13061
random amplified polymorphic DNA 5753
Ranunculaceae, taxonomy 13364
Rauvolfia mannii, strictosidine synthase 12286
Rauvolfia serpentina, strictosidine synthase 12286
reviews 53, 91, 11167, 11188, 11190
ribosomes 4628
ribulose-bisphosphate carboxylase 11256
Ricinus communis, catalase 7370
RNA 4555
  ribozymes 8805
Rosa
  anthocyanins 8663
  colour 8663
  flavonoid 3′,5′-hydroxylase 8663
  pH 8663
Salvia penstemonoides 2175
Schizophyllum commune, glyceraldehyde-3-phosphate dehydrogenase 1064
Secale cereale 1383, 3573
  nucleolus organizer 3695
  repetitive DNA 12642
self incompatibility 5802, 12445
  reviews 7674
Silene pratensis
  flowers 2174
  sex 2174

  - *Sinapis alba*
    - anthers 842, 9676
    - photolyases 844
    - pollen 9676
  - Solanaceae, self incompatibility 1235, 2386
  - *Solanum chacoense,* self incompatibility 3553
  - *Solanum tuberosum* 2953, 3579, 11801, 11812
    - 1,4-α-glucan branching enzyme 604
    - cold resistance 8260
    - cysteine proteinase 8247
    - fructokinase 603
    - glucose-6-phosphate dehydrogenase 7158
    - injuries 10590
    - lipoxygenase 10590
    - maturase 5087
    - patatin 8238
    - proteinase inhibitors 605
    - reviews 2952
    - source sink relations 6232
    - starch 2969
    - starch phosphorylase 608
    - sulfate adenylyltransferase 10568
    - tubers 8247
  - *Sorghum bicolor,* evolution 6735
  - *Spinacia oleracea* 4038
    - *O*-acetylserine (thiol) lyase 646
    - cysteine synthase 647
    - heat shock proteins 645
    - photosynthesis 2602
    - plastocyanins 7201
    - proteins 1821
    - sucrose phosphate synthase 3050
  - starch 11190
  - stress 11167
    - reviews 8783
  - *Taxus mairei,* taxonomy 8629
  - techniques 101, 3486, 4563, 7607, 12316, 12320-12321
    - books 12319, 13422
    - DNA 9999
    - RNA 9999
  - thionins 3479
  - *Tradescantia commelinoides,* chromosome morphology 2376
  - transposable elements 1157
  - *Trifolium pratense,* somaclonal variation 3922
  - *Trifolium repens,* linamarase 9293
  - Triticeae 3574, 7727, 8881
    - evolution 6735
  - *Triticum,* genomes 2466
  - *Triticum aestivum* 182, 184, 1383, 2464, 3573, 3605, 7727, 7732, 7736, 7824, 8881, 11297
    - abscisic acid 12520
    - aluminium 3646
    - cold 187
    - cold resistance 8919
    - DNA primase 10082
    - dormancy 12520
    - glucose-1-phosphate adenylyltransferase 185
    - glutenins 1277-1278, 3636, 5860
    - growth regulators 12520
    - heat shock proteins 2457
    - heterosis 2428
    - light 187
    - nucleolus organizer 3592
    - nutritive value 1250
    - photosynthesis 2430
    - proteins 1250
    - quality 7711
    - stress 7792
    - toxic substances 3646
  - *Vicia* 3926
  - *Vicia faba,* cytoplasmic male sterility 3954
  - *Vicia sativa* 3926
    - chromosome morphology 2376
  - *Vigna unguiculata*
    - *Callosobruchus maculatus* 588
    - proteinase inhibitors 588
    - *Rhizobium* 10549
  - viruses 2312, 11170-11171
  - *Vitis,* variety classification 3158
  - *Vitis vinifera,* variety classification 3158
  - water balance 11273
  - *Zea mays* 2685, 6885, 7884, 9012, 9025, 11437, 12659
    - accessory chromosomes 3739
    - alcohol dehydrogenase 2199, 7881
    - α-amylase 6882
    - amylose 3720
    - anthocyanins 2675, 3712, 3717, 5961, 10235
    - auxin binding proteins 312
    - books 3457
    - catalase 9029
    - cold resistance 10290
    - colour 7922
    - development 7915
    - DNA 7613
    - DNA binding proteins 4815
    - endosperm 7922
    - flavonoids 12669
    - flowers 2682
    - gibberellic acid 7897
    - 1,4-α-glucan branching enzyme 3720
    - glucose-1-phosphate adenylyltransferase 5973
    - glutamate-ammonia ligase 316
    - glutelins 9140
    - growth regulators 7897
    - heat shock proteins 9019, 9021
    - heterosis 2428
    - hypoxia 2199
    - leaves 5970, 9011
    - lysine 3753
    - mercuric chloride 5986
    - methyltransferases 325
    - mutator genes 12664
    - polygalacturonase 308
    - polyubiquitin 9022
    - profilins 310, 5799
    - proteins 1716
    - roots 325
    - seeds 1428, 7613
    - starch 307
    - toxic substances 5986
    - transposable elements 1403, 3731, 7887, 7894, 9048, 11428, 11441, 12664
    - ubiquitin 9023
    - zein 3753, 5971
  - *Zinnia elegans* 4416
    - cell culture 4417
  - *Zizania aquatica*
    - evolution 1645
    - taxonomy 1645
  - *Zizania texana*
    - evolution 1645
    - taxonomy 1645
- **Molybdenum cofactor,** *Pisum sativum* 2911
- ***Momordica charantia***
  - hybrid seed production 7242
  - interspecific hybridization 11940
  - multivariate analysis, yield components 7243
  - storage, pollen 11940
- ***Momordica dioica***
  - interspecific hybridization 11940
  - storage, pollen 11940
- ***Monilia*** (*see also Monilinia*)
- ***Monilinia, Prunus,*** **plums** 10745
- ***Monilinia fructicola,*** *Prunus persica* 11984
- **Monogerm seeds**
  - *Beta vulgaris*
    - sugarbeet 3268
      - genetics 13188
      - linkage 3269
      - restriction fragment length polymorphism 3269
- ***Monographella nivalis***
  - cereals 7022
  - *Dactylis glomerata* 7021-7022
    - heritability 1626, 7021-7022
  - grasses 7022
  - *Hordeum vulgare* 7022, 11291
  - *Phleum pratense* 7021
  - *Secale cereale* 2438, 2655, 11291, 11412
    - genetic variance 6868
    - genetics 2658
  - triticale 2665, 8997, 11291
  - *Triticum aestivum* 2438, 11291, 11412
- **Monophenol monooxygenase**
  - *Triticum aestivum* 12541
  - *Triticum durum* 12541
- **Monoploidy** (*see* Haploidy)
- **Monosaccharide-H^+ symporter**
  - *Arabidopsis thaliana*
    - gene expression 11204
    - genetic engineering 11204
- **Monosaccharide transporters**
  - *Nicotiana tabacum*
    - gene expression 911
    - genetic engineering 911
- **Monosomic analysis** (*see* Gene location)
- **Monosomics** (*see* Aneuploidy)
- **Monoterpenes**
  - *Abies alba,* chemotaxonomy 8645
  - conifers 9808
  - *Pinus* 3359
  - *Pinus flexilis* 2136
- ***Moricandia* × *Brassica,*** intergeneric hybridization 3198
- ***Moringa oleifera***
  - genetic variance, yield components 7372
  - heritability, yield components 7372
  - yield components 11875
- ***Mormodes paraënsis,*** taxonomy 1026
- **Morphology** 12447
  - *Achillea millefolium* 11072
  - *Agaricus bitorquis* 4506
  - *Allium longicuspis* 636
  - *Allium sativum* 636
  - *Avena sterilis* 5932
  - *Beta maritima* 2033
  - *Camellia nitidissima* 3377
  - *Camellia petelotii* 3377
  - *Cicer arietinum,* induced mutations 7127
  - *Cicer canariense* 2922
  - *Cocos nucifera,* multivariate analysis 13154
  - *Coffea arabica* 2046
  - *Columnea* 13344
  - computer programming 132
  - *Corchorus olitorius,* mutations 957
  - *Cucumis melo* 715
  - *Cynara scolymus,* somaclonal variation 12990
  - *Dahlia pinnata* 989
  - *Dimocarpus longan* 13110
  - *Epipactis,* multivariate analysis 13380
  - evolution 11232, 11254
  - genotype environment interaction 11232
  - *Gerbera jamesonii* 989
  - *Gossypium arboreum* 10957
  - *Gossypium herbaceum* 10957
  - *Gossypium hirsutum,* genetic markers 6513
  - *Helianthus tuberosus,* multivariate analysis 7184
  - *Hordeum vulgare* 4751, 12602
    - gene location 2606
    - genetics 1358, 5913
    - linkage 1361-1362
    - mutations 1358, 2606
  - *Jasminum auriculatum* 1059
  - *Juglans regia* 10829
  - *Lupinus albus* 8120
  - *Lupinus angustifolius,* multivariate analysis 12820
  - *Lycopersicon esculentum,* somaclonal variation 7225
  - *Medicago ciliaris,* multivariate analysis 12811
  - *Medicago intertexta,* multivariate analysis 12811
  - *Medicago scutellata* 3916
  - *Nesphostylis* 12925
  - *Oryza sativa* 3845
    - genetics 6977
    - induced mutations 6977
    - somaclonal variation 427
  - *Paspalum distichum* 1640
  - *Pennisetum glaucum,* genetic variance 1503
  - *Pennisetum purpureum* 373
  - *Phleum pratense* 2813
  - *Phoenix dactylifera,* multivariate analysis 7309
  - *Pisum sativum,* mutations, reviews 6181
  - *Populus*
    - artificial selection 13272
    - somaclonal variation 4350
  - *Prunus armeniaca,* multivariate analysis 10743
  - *Prunus persica*
    - gene mapping 7279

Morphology *cont.*
- *Prunus persica cont.*
  - linkage 7279
  - random amplified polymorphic DNA 7279
- *Rumex acetosella* 5165
- *Salix acutifolia* 12192
- *Salix daphnoides* 12192
- *Solanum incanum,* linkage 689
- *Solanum melongena,* linkage 689
- *Solanum tuberosum* 11818
- *Sphenostylis* 12925
- *Triticum aestivum* 8942
- *Vicia faba,* induced mutations 6147
- *Vicia sativa,* multivariate analysis 11680
- *Vigna aconitifolia,* induced mutations 3984
- *Vigna angularis,* genetic variance 6222
- *Zea,* genetic markers 2684
- *Zea mays*
  - gene location 3756
  - genetic markers 2684
  - genetics 3756
  - multivariate analysis 1458
  - mutations 3756
  - sweetcorn 5949
- *Zea mexicana,* genetic markers 2684
- *Zea parviglumis*
  - gene location 3756
  - genetics 3756
  - mutations 3756
- *Zingiber officinale* 2232
- *Zinnia elegans,* induced mutations 7513

Morus
- *Bombyx mori* 5306
- crop density 785

Morus alba
- *Bombyx* 6315
- interspecific hybridization 9611
- polyploidy 6315, 9611
- salinity 7299

Morus atropurpurea
- *Bombyx* 6315
- polyploidy 6315

Morus indica
- interspecific hybridization 9611
- polyploidy 9611

Mouriri, taxonomy 5571

Mouriri crassisepala, taxonomy 7455

Mozambioside, *Coffea* 903

Muhlenbergia argentea, genetic variation, isoenzymes 6071

Muhlenbergia lucida, genetic variation, isoenzymes 6071

Multiline varieties (*see also* Composite varieties; Genotype mixtures)

Multiple alleles
- *Arabidopsis thaliana*
  - light 10000
  - nomenclature 10013
  - phytochrome 10013
- *Oryza sativa*
  - height 11584
  - plant embryos 12736
  - sterility 12733
- selection 4609
- *Solanum chacoense*
  - glycoproteins 11815
  - self incompatibility 11815
- *Zea diploperennis,* alcohol dehydrogenase 4835
- *Zea luxurians,* alcohol dehydrogenase 4835
- *Zea mays*
  - alcohol dehydrogenase 4835
  - anthocyanins 3750
  - colour 7909
  - height 9037
  - light 3750
  - *Ostrinia nubilalis* 9037

Multiple genes
- gene expression 11175
- genetic transformation 11175
- *Oryza sativa*
  - gene mapping 11554
  - molecular genetics 11554
- tubulin 10039

Multivariate analysis
- *Allium sativum,* bulbs 9511
- *Amaranthus* 660

Multivariate analysis *cont.*
- *Arachis hypogaea,* yield components 1984, 4258
- *Brassica oleracea*
  - cabbages, taxonomy 3044
  - kale, taxonomy 3044
- breeding 3461
- *Carthamus* 851
- *Cicer arietinum* 9417
  - yield components 1749, 7128
- *Cocos nucifera*
  - morphology 13154
  - polyphenols 6386
- *Colocasia esculenta,* yield components 4022
- *Corchorus capsularis*
  - quality 2102
  - yield components 2102
- *Corchorus olitorius*
  - quality 2102
  - yield components 2102
- *Cuminum cyminum* 1056
- *Dahlia pinnata* 989
- *Diplotaxis,* flavonoids 13176
- *Epipactis,* morphology 13380
- evolution 2396-2397
- genetic resources 1102, 3535
- genetic variation 3461, 3535
- *Gerbera jamesonii* 989
- *Glycine max*
  - aluminium 12861
  - *Cercospora sojina* 7093
  - soil toxicity 12861
  - yield components 10482, 12858
- *Gossypium arboreum,* yield components 5502, 6519
- *Helianthus tuberosus,* morphology 7184
- heterosis 3538
- *Hevea brasiliensis,* yield components 12178
- *Hyoscyamus muticus,* yield components 2222
- *Juglans regia* 10830
- *Lablab purpureus,* yield components 3992
- *Lens culinaris,* yield components 12906
- *Leptospermum trinervum,* leaves 9847
- *Linum usitatissimum,* flax 12168
- *Lolium perenne*
  - agronomy 8067
  - isoenzymes 3877
- *Lonicera* 12006
- *Lupinus angustifolius*
  - morphology 12820
  - yield components 12820
- *Macrotyloma uniflorum* 9447
- *Malus pumila,* spur types 7253
- *Medicago ciliaris,* morphology 12811
- *Medicago intertexta,* morphology 12811
- *Momordica charantia,* yield components 7243
- *Musa* 787
- *Oryza sativa,* yield components 1560, 1568, 2751, 3837
- *Panicum,* taxonomy 11533
- *Pennisetum purpureum* 373
- *Phoenix dactylifera*
  - isoenzymes 7309
  - morphology 7309
- *Pinus,* leaves 5580
- *Pinus celakovskiorum,* leaves 5580
- *Pinus mugo,* leaves 5580
- *Pinus sylvestris,* leaves 5580
- *Pisum sativum* 552-553
  - yield components 8197
- *Prunus armeniaca,* morphology 10743
- *Prunus persica*
  - quality 7280
  - yield components 7280
- *Prunus serotina,* seedlings 7274
- quantitative traits, gene mapping 6685
- resins 7482
- *Saccharum,* isoenzymes 2009
- *Saccharum officinarum, Diatraea saccharalis* 3266
- *Sambucus nigra*
  - aroma 6316
  - fruits 6316
- taxonomy 2396-2397
  - books 4520
- *Trifolium alexandrinum* 482

Multivariate analysis *cont.*
- *Triticum aestivum*
  - quality 4714
  - yield components 1304, 3622-3623, 6756, 7718, 10077
- *Triticum durum,* yield components 3623
- *Vicia faba* 530
  - yield components 2880, 3957, 6150
- *Vicia radiata* 589
- *Vicia sativa,* morphology 11680
- *Vigna unguiculata,* yield components 3980
- *Vitis vinifera*
  - geography 5287
  - leaves 5287
  - variety classification 5287
- *Zea mays*
  - germination 3751
  - morphology 1458
  - seeds 3751

Mung bean yellow mosaic bigeminivirus
- *Vigna mungo,* genetics 9443
- *Vigna radiata* 5080-5081, 12924

Murothecium roridum, Cucumis melo, in vitro selection 8366

Murraya koenigii, *Phyllocnistis citrella* 5323

Musa
- biotechnology 3170
- breeding 4172, 8435, 9614, 10799
- cell culture 8440
- chimaeras 1912
- colchicine 6321
- cryopreservation 9616-9617
- cytoplasmic inheritance 5312
- dimethyl sulfoxide 6321
- ethyl methanesulfonate 6318
- fruits 10801
- gamma radiation 6318-6319, 6321
- gene banks 10802
- gene dosage, *Mycosphaerella fijiensis* 8438
- gene mapping 5311
- genetic distance 787
- genetic markers, genomes 8437
- genetic resources 4171
- genetic transformation 6317
- genetic variation
  - glucose-6-phosphate isomerase 788
  - isoenzymes 788
  - malate dehydrogenase 788
  - peroxidases 1911
  - phosphoglucomutase 788
- genomes 6320
- germplasm releases, *Mycosphaerella fijiensis* 8443
- *in vitro* culture 786
- *in vitro* selection, *Fusarium oxysporum* 12009
- induced mutations 6318
  - *Fusarium oxysporum* 6321
  - growth period 6319
- mathematics 13092
- moisture content 8442
- multivariate analysis 787
- mutagens 6318, 6321
- *Mycosphaerella fijiensis* 7300, 9614, 9618, 10804
- polymerase chain reaction 787
- polyploidy 6321, 8438, 13091
- protoplasts 4174, 6317
- quality 8441-8442
- random amplified polymorphic DNA, genomes 8437
- somaclonal variation 1912, 4173
  - *Fusarium oxysporum* 12010
- stability 5310
- stomata 9615
- tissue culture 8439, 10802-10803, 12008, 13091
- variety trials 5310, 8436
- yield components 13092
- varieties
  - FATOM-1 6319
  - FHIA-01 10799
  - Goldfinger 10799

Musa lolodensis, genetic resources 10800

Musa salaccensis, genetic resources 10800

Mussaenda erythrophylla
- chromosome number 11043
- tissue culture 4394, 11043

Mutagens
- *Alhagi kirghisorum* 5669
- *Apium graveolens* 6258
- *Arabidopsis thaliana* 79, 81, 2361, 4594, 5783, 5788, 7636, 7643, 7646, 7652, 10014-10016, 10018, 11211, 11215, 12422
- *Arachis hypogaea* 4252
- *Avena sativa*
  - ethyl methanesulfonate 5933
  - sodium azide 5933
- *Capsicum annuum* 7236, 11899
- *Cicer arietinum* 6202, 7127
- *Corchorus olitorius* 6526
- *Crotalaria juncea* 961
- *Cyamopsis tetragonoloba* 3991
- *Gerbera jamesonii* 5636
- *Glycine max* 2855, 3948, 10474, 10477
- *Gossypium* 10965
- *Gossypium hirsutum* 9739
- *Hibiscus sabdariffa* 5514
- history 5796
- *Hordeum vulgare* 278, 2590-2591, 3576, 3673, 4755, 4758-4761, 5904, 5910, 6825, 10037, 10165-10168, 11383
- *Lens culinaris* 562, 1743, 1745, 7121
- *Linum usitatissimum,* flax 7425
- *Lycopersicon esculentum* 7231, 8341, 11882
- *Malus pumila* 10719
- *Medicago* 2826
- *Melilotus alba* 6090
- *Musa* 6318, 6321
- *Nicotiana plumbaginifolia* 8549, 13230
- *Nicotiana tabacum* 8549
- *Oryza sativa* 4893, 6971, 6989, 8001, 9224, 10361, 12734, 12736, 12749
- *Pachyrhizus erosus* 1814
- *Phaseolus vulgaris* 5038, 8179
- *Pisum sativum* 5056-5057, 7116, 8192, 8195, 10519, 11752, 12898
- *Pleurotus ostreatus* 4501
- *Secale cereale* 2653, 6731
- *Solanum melongena* 5193
- *Solanum nigrum* 7540
- *Solanum tuberosum* 10582
- *Sorghum bicolor* 6931
- *Tradescantia* 12256
- *Trifolium pratense* 2841
- *Trigonella foenum-graecum* 11690
- triticale 3576, 6731, 8988-8989
- *Triticum aestivum* 1288-1289, 2463, 2485, 3576, 6731, 8875, 10084-10085, 10098, 11313, 12485
- *Vicia faba* 106, 5000, 6147-6148, 10037
- *Vigna aconitifolia* 3984
- *Vigna mungo* 1766-1767
- *Vigna radiata* 1766
- *Vigna sublobata* 1766
- *Vigna unguiculata* 7141, 12916
- *Zea mays* 2683, 9067

Mutations 8839, 8849, 12436
(*see also* Back mutations; Chromosome aberrations; Induced mutations)
- *Agrocybe aegerita,* pyrimidines 7561
- amino acids 11189
- *Antirrhinum majus*
  - colour 12261
  - epidermis 12261
  - flowers 6581, 12261
- *Arabidopsis thaliana*
  - abnormal development 12417
  - abscisic acid 146, 6678, 7637, 8818, 10029
  - acetolactate synthase 7656
  - ammonium 73
  - anthocyanins 5779, 12421
  - anthranilate synthase 71
  - carotenoids 11216
  - chlorates 5789
  - chlorophyll *a/b* binding protein 7650
  - cold resistance 6678
  - cytokinins 3519, 7644
  - development 74, 1162, 3518-3519, 3521, 10019-10021, 10372, 11221-11222, 12418-12419, 12421
  - diseases 5742, 11226
  - drought resistance 7657
  - embryology 1162-1163
  - ethylene 76, 12414
- *Arabidopsis thaliana cont.*
  - fertility 3515
  - flowering 2358, 3517, 3519, 8820, 10024, 10372
  - flowers 11218
  - gamma radiation 6675
  - germination 7645
  - gibberellic acid 5784, 8820
  - gibberellins 69
  - growth regulators 69, 76, 144, 146, 3519, 5784, 6678, 7657
  - height 12417
  - herbicides 5789, 7656
  - IAA 8814
  - leaves 11222, 12417
  - light 74, 3517-3518, 7644, 8819, 10000, 10020-10021, 12421
  - lipids 12416
  - male sterility 3515
  - methionine 7640
  - ovules 7642
  - photosynthesis 7650
  - phytochrome 72, 80, 2357, 2360, 5771, 6677, 7639, 7645, 10023-10025, 11220
  - *Phytophthora megasperma* 1165
  - plant embryos 75, 1162-1163, 3550, 10019, 12418
  - plant hairs 4592, 8816-8817, 12415, 12419
  - pollen 68, 7635
  - pollen germination 3516
  - proteins 12416, 12420
  - *Pseudomonas syringae* 1165-1168, 2362, 5787
  - ribulose-bisphosphate carboxylase 7650
  - roots 73, 3521, 11221
  - seedlings 12418
  - seeds 7645, 12416
  - shoots 3516
  - stearic acid 12417
  - techniques 6675
  - tropisms 70, 77, 147, 2357
  - tryptophan 71, 8814
  - ultraviolet radiation 6675
  - variegation 11216
  - vivipary 12418
- books 12324
- *Brassica campestris,* phytochrome 80
- *Brassica napus*
  - rape
    - atrazine 3213
    - chlorsulfuron 4226
    - herbicides 3213, 4226
    - photosynthesis 3213
- *Brassica pekinensis,* chlorophyll 4031
- *Cajanus cajan*
  - flowers 9422
  - outcrossing 9421
- chlorophyll 6694
- *Cicer arietinum,* fasciation 3974
- *Clarkia tembloriensis,* flowers 1003
- *Cocos nucifera*
  - chlorophyll 6378
  - fruits 13153
  - inflorescences 13153
- *Coprinus cinereus,* meiosis 2245
- *Corchorus olitorius,* morphology 957
- crops, roots 149
- *Cucumis sativus*
  - leaves 11932
  - phytochrome 11935
  - stems 11935
- *Cucurbita pepo*
  - colour 11923
  - fruits 11923
- *Dendranthema,* colour 12260
- *Doritis pulcherrima*
  - anthocyanins 13374
  - flowers 13374
- embryo sac 3545
- *Erythrina caffra,* trypsin inhibitors 13336
- flowers 5749
- genetic drift 4612
- *Glycine max*
  - *Bradyrhizobium* 522
  - chlorophyll 11708, 12853
  - colour 2861
  - flowers 2861
  - malate dehydrogenase 12853
- *Glycine max cont.*
  - nitrates 11729
  - nitrogen fixation 9361
  - nodulation 522-523, 2867, 9361, 11728-11729
  - photosynthesis 11708
  - seeds 12842
- *Glycine soja*
  - leaves 9376
  - necroses 9376
  - saponins 10486
- *Gossypium hirsutum*
  - chlorophyll 7413
  - quality 4337
- *Helianthus annuus*
  - chlorophyll 8496, 10864
  - dormancy 8496
  - salinity 10864
- *Hordeum vulgare*
  - anthocyanidins 12616
  - anthocyanins 2615, 3678
  - chlorophyll 1363, 2608, 7709
  - chlorophyll *a/b* binding protein 4763
  - development 6837
  - dihydrokaempferol 4-reductase 2615
  - endosperm 1366
  - free radicals 2589, 2612
  - glutamate synthase 3670
  - growth period 2610
  - height 1358, 2609, 2611
  - hordein 3677
  - inflorescences 2589, 2591, 2596, 2612, 2616
  - ligules 12603
  - lysine 2589, 2616
  - male sterility 1352
  - morphology 1358, 2606
  - nomenclature 2580
  - nutritive value 12616
  - organelles 10163
  - outcrossing 7842
  - photosynthesis 2604, 10163, 11377
  - plant composition 12616
  - pollination 7842
  - proteins 2589, 2612, 2616
  - quality 1366, 6837, 12618
  - seeds 6837
  - starch synthase 8954
  - yield components 12616
- inbreeding 4626
- *Linum usitatissimum,* flax, *Melampsora lini* 956
- lipids 11191
- *Lotus corniculatus,* inflorescences 1673
- *Lycopersicon esculentum* 1833
  - abnormal development 11882
  - abscisic acid 146
  - ACC synthase 10663
  - alcohol dehydrogenase 5175
  - anthocyanins 13003
  - catalase 9545
  - chlorophyll 5176, 8328, 9543
  - determinate and indeterminate habit 6267
  - ethylene 10663
  - fenthion 10677
  - flowers 6269, 11882
  - fruits 11882-11883
  - gibberellins 10660
  - growth regulators 146, 10660
  - injuries 4064
  - peroxidases 9545
  - photoperiodism 10664
  - phytochrome 4061, 10664-10665, 13005
  - proteinase inhibitors 4064
  - *Pseudomonas syringae* 10677
  - reviews 11883
  - ripening 675, 10663, 11883
  - seedlings 11882
  - stems 6267
  - superoxide dismutase 9545
  - tropisms 147, 674
  - ultraviolet radiation 10665
  - variegation 5176, 9543
- *Malus pumila*
  - fruits 13047
  - habit 733
- *Manihot esculenta,* polyploidy 12949
- mathematics 4625, 5797, 6688

Melilotus alba
  chlorophyll 9307
  nodulation 3939
Nicotiana plumbaginifolia 12129
  cytokinins 8554, 13222
  development 8554
  nitrate reductase 12412
  ribosomal RNA 12122
  source sink relations 8554
  streptomycin 12122
Nicotiana sylvestris
  cell division 929
  leaves 929
Nicotiana tabacum
  anthers 10936
  chlorophyll 12148
  chloroplasts 2068, 12144
  development 10936
  flowers 10936
  germination 12144
  nitrate reductase 12412
  photosynthesis 2068, 10937, 12148
  ribulose-bisphosphate carboxylase 3286
  sterols 13223
nitrate reductase 11186
nitrates 11186
nitrite reductase 11186
nucleotide sequences 8847
Oenothera erythrosepala
  abnormal development 12255
  gynoecium 12255
  sterility 12255
Oenothera hookeri
  abnormal development 12255
  gynoecium 12255
  sterility 12255
Oryza sativa
  gibberellins 3834
  growth regulators 3834
  gynoecium 406
  height 2747, 3834
  light 6995
  proteins 9228
  temperature 6995
outcrossing 4626
ovules 3545
pathogens 9964
Pelargonium 9846
Petunia hybrida 7521
  development 3416
  flavonols 12265
  flowers 3416
  pollen germination 12265
Pharbitis nil
  dihydrokaempferol 4-reductase 8675
  flowers 8675
Phaseolus
  colour 12874
  flowers 12874
Phaseolus vulgaris
  anthocyanins 8174
  chlorophyll 10506
  colour 5035, 8174
  fruits 8174
  nodulation 5032-5033, 5035
  seeds 5035
  senescence 10506
phytochrome 11194
Pisum sativum
  abscisic acid 6178, 8193
  chitinase 10522
  development 11755, 12894
  flowering 12895
    reviews 6181
  fruits 7111
  gibberellins 549, 6184, 11755, 11758, 12894
  Glomus 10522
  Glomus mosseae 551
  growth regulators 549, 6178, 6184, 8193
  height 6184-6185, 7112, 11758
  internodes 6185, 9403
  light 9403
  morphology, reviews 6181
  mycorrhizas 2910
  nodulation 558, 7115, 8198, 10522
  nodulins 8198
  phytochrome 9403, 12894
  proteins 2910
Pisum sativum cont.
  Rhizobium 7115
  seeds 6190, 7111
  tropisms 147
  water balance 8193
Pleurotus salmoneostramineus, amino acids 6620
quantitative traits 8848
reviews 11186, 11189
ribulose-bisphosphate carboxylase 1135
Rosa 9846
Rosa hybrida
  haploidy 13346
  pollen 13346
Secale cereale
  androecium 294
  chromosome pairing 12645
  desynapsis 10208
  gibberellic acid 5939
  growth regulators 5939
  height 5939
  meiosis 11408
  synaptonemal complex 12645
sexual reproduction 12442
Simmondsia chinensis, fruits 4270
Solanum tuberosum
  atrazine 4012
  herbicides 4012
Sorghum bicolor
  development 12692
  phytochrome 12692
Spinacea oleracea, plastocyanins 7202
statistics 4624
techniques 101
Thryptomene calycina, flowers 2162
Tradescantia
  colour 9876
  flowers 9876
Trifolium pratense
  flowering 8110, 9294
  gibberellins 8110
  growth regulators 8110
Triticum aestivum
  abscisic acid 12523
  chlorophyll 7709
  chromosome pairing 196, 2474
  dormancy 12523
  endosperm 1297, 2483
  gliadin 4712
  growth regulators 144, 12523
  proteins 1297, 2483
  sprouting 12523
Vicia faba, nodulation 532
Vigna mungo
  flowers 5076
  globulins 5076
  seeds 5076
Vigna radiata 6221
Vigna unguiculata, seeds 12916
Vitis vinifera
  colour 3159
  fruits 3159
Zea, spikelets 10281
Zea mays 2678, 11498
  abscisic acid 146, 5974, 10253, 11453
  alcohol dehydrogenase 10241, 10289
  amylose 3720
  anoxia 10289
  anthocyanins 2675, 3717, 5974, 7932, 11461
  carotenoids 10278
  cell division 110
  chlorophyll 6894
  chromosome morphology 9056
  chromosome pairing 9056
  colour 7929, 9032, 9110, 10249, 10266, 11445
  cytoplasm 6888
  databases 11444
  desynapsis 2679, 3733
  development 332, 7928, 9085-9086, 11454
  digestibility 10277
  DIMBOA 10265
  diseases 11226
  DNA binding proteins 4815
  endosperm 1422, 1438-1441, 1444-1446, 5977, 7902, 7941, 9079-9080, 9082, 9156, 11460
  flowers 1421
Zea mays cont.
  gene expression
    endosperm 9084
    glucose-1-phosphate adenylyltransferase 9084
  1,4-α-glucan branching enzyme 3720
  glumes 9092
  growth regulators 144, 146, 1422, 5974
  gynoecium 9073
  height 10260-10261, 12675
  hydroxymethylglutaryl-CoA reductase 10253
  IAA 1422
  inflorescences 7934, 9077, 12672
  leaves 326, 5970, 7899, 9038, 9054, 9086, 9093, 10266
  lignin 10277
  ligules 7920, 7924-7925
  lysine 330, 1444, 3753, 10278
  male sterility 9073
  meiosis 1411, 1413, 3738, 7911, 12667
  morphology 3756
  nutritive value 1439, 1441
  photosynthesis 7930-7931, 10937, 11455, 11462
  plant disorders 7966-7967
  plant embryos 7928, 11453, 11460
  Puccinia sorghi 1468
  quality 1454, 5977, 10278
  seedlings 7927, 9079, 11454
  seeds 1428, 5974, 7927, 9085, 9090, 9110, 11445, 11461
  sex 1421, 12672
  starch 1454, 11463
  stems 9086
  synaptonemal complex 3733
  threonine 330
  transposable elements 12665
  tropisms 147
  variegation 9090
  vivipary 5974, 7917, 9083, 10253, 11453
  zein 1445-1446, 3753, 7941, 9131
  sweetcorn, endosperm 9117
Zea parviglumis, morphology 3756
Mutator genes, *Zea mays,* molecular genetics 12664
Mycoplasma-like organisms
  Arachis hypogaea 2567
  Cajanus cajan 8215
  Guizotia abyssinica 874
  Malus pumila 3115
  Phoenix dactylifera 3181
  Santalum album, somaclonal variation 1060
  Triticum aestivum 2567
Mycoplasmas (*see* Mycoplasma-like organisms)
Mycorrhizas
  Ananas comosus 10812
  crops 10055
  Glycine max 9363
  Hordeum vulgare 7850
  Pinus caribaea 11021
  Pisum sativum 8196, 11753
    mutations 2910
  Triticum 2481
  Triticum aestivum 8903
Mycosphaerella (*see also Didymella)*
Mycosphaerella arachidis
  Arachis, germplasm releases 4264, 12091
  Arachis hypogaea 3245, 3248, 8506, 10887, 13168
    germplasm releases 12091
Mycosphaerella berkeleyi
  Arachis, germplasm releases 4264, 12091
  Arachis hypogaea 3243, 3248-3249, 5403, 8506, 10887, 12089, 13168
    germplasm releases 12091
    heritability 4263
Mycosphaerella brassicicola
  Brassica 10851
  Brassica oleracea
    Brussels sprouts 3046
    cabbages 3046, 10644
    cauliflowers 3046
Mycosphaerella cruenta, *Vigna radiata* 7156
Mycosphaerella fijiensis
  Musa 7300, 9614, 9618, 10804

- ***Mycosphaerella fijiensis*** *cont.*
  - *Musa cont.*
    - gene dosage 8438
    - germplasm releases 8443
- ***Mycosphaerella graminicola***
  - *Aegilops speltoides* 11361
  - *Aegilops squarrosa* 11361
  - *Triticum aestivum* 2527, 3652, 6777, 6780, 7798-7799, 7801, 8922-8923
  - *Triticum boeoticum* 7803
  - *Triticum dicoccoides* 7803
  - *Triticum durum* 3652, 6777, 7798
  - *Triticum monococcum* 7798
- ***Mycosphaerella pini,*** *Pinus radiata* 7484
- ***Mycosphaerella populorum***
  - *Populus nigra,* somaclonal variation 8610
  - *Populus trichocarpa,* somaclonal variation 8610
- **Mycotoxins**
  - *Triticum aestivum* 2530, 12566
  - *Zea mays* 10297
- **Myosin,** *Arabidopsis thaliana,* molecular genetics 10008
- ***Myosotis***
  - chromosome number 3392
  - polyploidy 3392
- ***Myosotis margaritae,*** taxonomy 6572
- ***Myrcia rupta,*** taxonomy 13288
- ***Myrica esculenta,*** genetic resources 1921
- ***Myrica rubra,*** genetic resources 6293
- ***Myristica,*** taxonomy 9930
- ***Myristica lancifolia,*** taxonomy 4482
- **Myrtaceae**
  - flowers 8852
  - pollination 8852
- ***Mysanthus uleanus,*** taxonomy 10562
- ***Mythimna separata,*** *Zea mays* 11506
- ***Myzus persicae***
  - *Nicotiana benthamiana* 3313
  - *Nicotiana plumbaginifolia,* genetic transformation 937
  - *Nicotiana tabacum* 2078, 3313
  - *Prunus persica,* genetics 13070
  - *Solanum tuberosum* 8263
- **NAA,** *Nicotiana tabacum,* gene expression 909
- **NADH dehydrogenase**
  - *Brassica campestris,* turnips, mitochondrial genetics 618, 8311
  - *Lactuca sativa,* mitochondrial genetics 8311
  - mitochondrial genetics 9980
  - *Oenothera,* mitochondrial genetics 8670
  - *Petunia,* mitochondrial genetics 9977
  - *Triticum aestivum,* mitochondrial genetics 10079
  - *Zea mays,* mitochondrial genetics 9977, 10232
- **NADH dehydrogenase (ubiquinone)**
  - *Solanum tuberosum*
    - gene expression 10569, 11803
    - mitochondrial genetics 10569, 11803
  - *Triticum aestivum*
    - mitochondrial genetics 3590, 10080
    - nucleotide sequences 10080
  - *Zea mays*
    - mitochondrial genetics 7886
    - nucleotide sequences 7886
- **NAD(P)H-plastoquinone-oxidoreductase**
  - *Oryza sativa*
    - gene expression 12465
    - genetic transformation 12465
  - *Phaseolus vulgaris*
    - gene expression 12465
    - immunology 12465
  - *Sorghum bicolor*
    - gene expression 12465
    - immunology 12465
  - *Spinacia oleracea*
    - gene expression 12465
    - immunology 12465
  - *Zea mays*
    - gene expression 12465
    - immunology 12465
- **NADPH:isoflavone oxidoreductase,** *Cicer arietinum,* molecular genetics 6209
- **Naked grain**
  - *Avena sativa* 7867
  - *Hordeum vulgare* 4769
    - induced mutations 4760
- **Napin**
  - *Brassica napus*
    - rape
      - gene expression 4204, 4216, 12045
      - genetic engineering 4204
  - *Nicotiana tabacum*
    - gene expression 4204
    - genetic transformation 4204
- ***Narcissus***
  - DNA 9883
  - polyploidy 9883
- ***Narcissus papyraceus,*** molecular genetics, pollen 8706
- ***Narenga***
  - chloroplast genetics, evolution 7374
  - restriction fragment length polymorphism, evolution 7374
- **Naringenin-chalcone synthase**
  - *Antirrhinum,* gene expression 4423
  - *Antirrhinum majus*
    - gene expression 4436
    - transposable elements 4436
  - *Daucus carota*
    - gene expression 10614
    - genetic transformation 10614
    - nucleotide sequences 10614
  - *Dendranthema grandiflora*
    - gene expression 4426
    - genetic engineering 4426
    - genetic transformation 4426, 8680
  - *Glycine max*
    - gene expression 12842
    - molecular genetics 12842
  - *Medicago sativa*
    - gene expression 8103
    - nucleotide sequences 8103
  - *Petroselinum crispum*
    - gene expression 7553, 8744, 11108, 12298
    - genetic transformation 8491, 12298
    - molecular genetics 12298
  - *Petunia,* gene expression 2198, 4423
  - *Petunia hybrida,* genetic transformation 9882
  - *Pisum sativum,* gene expression 12899
  - *Sinapis alba,* gene expression 8491
  - *Trifolium subterraneum*
    - gene expression 12816
    - nucleotide sequences 12816
- **Naringenin 3-dioxygenase,** *Malus,* nucleotide sequences 5223
- ***Nasonovia ribisnigri,*** *Lactuca sativa* 9529
- ***Nassella,*** taxonomy 8094
- ***Nasturtium officinale***
  - *Spongospora subterranea* 5167
  - watercress yellow spot virus 5167
- **Natural selection** 6713, 8844, 10050
  - *Aegilops peregrina,* esterases 6815
  - *Avena* 1244
  - *Beta maritima* 5433
  - *Deschampsia cespitosa*
    - metals 11653
    - pollution 11653
  - diseases 8786
  - *Echium pininana,* cold resistance 995
  - *Eucalyptus calophylla,* aluminium 9783
  - glucose-6-phosphate isomerase 6716
  - *Hordeum spontaneum* 1244
  - *Hordeum vulgare* 1244
  - mathematics 7678
  - *Mimulus guttatus*
    - copper 4432
    - toxic substances 4432
  - *Oryza sativa*
    - cold resistance 1598
    - sterility 1598
  - pathogens 8787
  - *Phacelia linearis,* flowers 7510
  - *Pharbitis purpurea*
    - *Colletotrichum dematium* 4433
    - colour 2190
    - flowers 2190
    - insects 4433
  - *Pisum sativum,* histones 1735
  - *Raphanus sativus,* flowers 12963
  - repetitive DNA 11174
  - senescence, reviews 8861
  - *Triticum aestivum,* pollen 12503
  - *Vicia unijuga,* histones 483
  - *Zea* 1244
- **Natural selection** *cont.*
  - *Zea mays* 1244
- **Necroses**
  - *Glycine soja*
    - genetics 9376
    - mutations 9376
  - *Vitis vinifera* 5298
- **Necrotic yellow vein furovirus,** *Beta vulgaris,* sugarbeet, genotype environment interaction 6463
- **Nectar,** *Fragaria ananassa* 13081
- **Nectaries**
  - *Brassica napus,* rape 1942
  - *Nicotiana* 2069
- ***Nectria galligena,*** *Malus pumila* 6296
- ***Nectria rugulosa,*** *Macadamia* 3185
- ***Nelumbo,*** genetic resources 7015
- ***Nelumbo lutea***
  - chromosome morphology 1036
  - chromosome number 1036
  - nucleolus organizer 1036
- **Nematoda**
  - *Cicer arietinum* 6116
  - genetic engineering 3482
  - *Lens culinaris* 6116, 6200
  - *Malus pumila* 10715
  - molecular genetics 3482
  - *Pisum sativum* 6116
  - *Prunus* 10715
  - temperate fruits 10715
  - *Vicia faba* 6116
- ***Nemophila menziesii,*** heritability, competitive ability 4431
- ***Neodiprion fulviceps,*** *Pinus ponderosa* 5592
- ***Neolitsea dealbata,*** pollination 11009
- **Neomycin phosphotransferase**
  - genetic engineering 5755
  - *Petunia hybrida*
    - gene expression 12264
    - genetic transformation 12264
    - genetics 12264
- ***Neovossia*** *(see Tilletia)*
- ***Nepenthes muluensis,*** interspecific hybridization 13381
- ***Nepenthes sarawakiensis***
  - alkaloids 13381
  - taxonomy 13381
- ***Nepenthes tentaculata,*** interspecific hybridization 13381
- ***Nephelium*** *(see also Dimocarpus; Litchi)*
- ***Nephelium lappaceum,*** quality 9632
- ***Nephotettix cincticeps,*** *Oryza sativa* 2774
- ***Nephotettix nigropictus***
  - *Oryza officinalis* 9240
  - *Oryza ridleyi* 9240
  - *Oryza rufipogon* 9240
- ***Nephotettix virescens***
  - *Oryza officinalis* 9240
  - *Oryza ridleyi* 9240
  - *Oryza rufipogon* 9240
- ***Nephrolepis exaltata,*** cell culture 6597
- ***Nerium oleander,*** tissue culture 13338
- **Nervonic acid,** *Brassica* (×) *Thlaspi* 7325
- ***Nesphostylis***
  - chloroplast genetics, taxonomy 12925
  - morphology 12925
  - restriction fragment length polymorphism, taxonomy 12925
- **Netherlands,** Centre for Plant Breeding and Reproduction Research, reports 5686
- **Neurotoxins,** *Lathyrus sativus* 4978
- **Neutron radiation**
  - *Oryza sativa* 12734
  - *Triticum aestivum* 11313, 12485
- ***Neuwiedia,*** taxonomy 9899
- **Nicosulfuron,** *Zea mays* 7972
- ***Nicotiana***
  - cowpea chlorotic mottle bromovirus 10943
  - flowering 4303
  - gene expression
    - cytoplasmic male sterility 10935
    - β-glucuronidase 12132
    - photosynthesis 932
  - genetic resources 13221
  - genetic transformation 5446
    - β-glucuronidase 12132
  - *in vitro* culture 2062
  - molecular genetics 5446
    - photosynthesis 932
    - ribonucleases 6485

- ***Nicotiana** cont.*
  - molecular genetics *cont.*
    - self incompatibility 6485
  - nectaries 2069
  - nucleocytoplasmic interaction, cytoplasmic male sterility 10935
  - photoperiodism 4303
  - pollen 2062
  - pollen germination 8551
  - polymorphism, photosynthesis 932
  - protoplast fusion, cytoplasmic male sterility 10935
  - random amplified polymorphic DNA 7393
  - transposable elements 6481
  - variety classification 13221
- ***Nicotiana africana*,** chromosome addition 7392
- ***Nicotiana alata***
  - crop density 926
  - flowering 926
  - gene expression
    - pollen 4301
    - ribonucleases 4301
    - self incompatibility 4301
  - genetic transformation
    - ribonucleases 6484
    - self incompatibility 6484
  - interspecific hybridization 6484
  - molecular genetics, self incompatibility 3282, 12448
  - sexual reproduction 926
- ***Nicotiana benthamiana***
  - gene expression
    - cucumber mosaic cucumovirus 4480
    - potato X potexvirus 4480
    - potato Y potyvirus 4480
  - genetic transformation
    - antibodies 5470
    - artichoke mottled crinkle tombusvirus 5470
    - bean yellow mosaic potyvirus 4311
    - cowpea chlorotic mottle bromovirus 6501
    - cucumber mosaic cucumovirus 4480, 5475
    - cymbidium ringspot tombusvirus 5480, 8569
    - grapevine fanleaf nepovirus 8566
    - impatiens necrotic spot tospovirus 10944
    - pea early browning tobravirus 5476
    - plum pox potyvirus 3310, 5467, 13058
    - potato X potexvirus 4480
    - potato Y potyvirus 4480
    - replicase 5475
    - squash leaf curl bigeminivirus 3312
    - tobacco mosaic tobamovirus 5475
    - tomato spotted wilt tospovirus 10944
  - interspecific hybridization 3313
  - *Myzus persicae* 3313
  - protoplast fusion 3313
- ***Nicotiana bigelovii***
  - genetic transformation, cauliflower mosaic caulimovirus 4309
  - recombination, cauliflower mosaic caulimovirus 4309
- ***Nicotiana clevelandii***
  - genetic transformation, plum pox potyvirus 3310, 5467, 13058
  - potato Y potyvirus 3310
- ***Nicotiana debneyi***
  - diseases 7403
  - gene expression
    - pathogenesis-related proteins 6497
    - ubiquitin 6497
  - genetic transformation, pathogenesis-related proteins 6497
  - interspecific hybridization 6497, 7403, 9731
  - scopoletin 7403
  - *Thielaviopsis basicola* 9731
- ***Nicotiana eastii***
  - backcrossing 5454
  - cytoplasmic male sterility 5454
  - interspecific hybridization 5454
- ***Nicotiana glauca***
  - *Agrobacterium rhizogenes* 10927
  - chimaeras
    - development 4304
- ***Nicotiana glauca** cont.*
  - chimaeras *cont.*
    - shoots 4304
  - gene expression 10927
    - abnormal development 12154
    - cytokinins 12154
    - genetic tumours 12155
    - growth regulators 12154
    - kinases 12154
  - *in vitro* culture 12133
  - interspecific hybridization 4304, 10927, 12154-12155
  - nucleotide sequences 12133
    - *Agrobacterium rhizogenes* 10927
    - genetic tumours 12155
  - protoplasts 8558
- ***Nicotiana glutinosa***
  - chloroplast genetics 8550
  - cucumber mosaic cucumovirus 10942
  - diseases 7403
  - gene expression
    - pathogenesis-related proteins 6497
    - ubiquitin 6497
  - genetic transformation
    - pathogenesis-related proteins 6497
    - tobacco mosaic tobamovirus 9734
  - genetics, tobacco mosaic tobamovirus 10942
  - interspecific hybridization 6497, 7403, 8550, 9731, 9734
  - mitochondrial genetics 8550
  - potato X potexvirus 10942
  - potato Y potyvirus 10942
  - protoplast fusion 8550
  - restriction fragment length polymorphism 8550
  - scopoletin 7403
  - *Thielaviopsis basicola* 9731
- ***Nicotiana knightiana***
  - interspecific hybridization 13215-13216
  - nucleocytoplasmic interaction
    - haploidy 13216
    - meiosis 13215
    - pollen 13215
- ***Nicotiana langsdorffii***
  - *Agrobacterium rhizogenes* 10927
  - gene expression 10927
    - abnormal development 12154
    - cytokinins 12154
    - genetic tumours 12155
    - growth regulators 12154
    - kinases 12154
  - genetic transformation
    - ribonucleases 6484
    - self incompatibility 6484
  - interspecific hybridization 6484, 10927, 12154-12155
  - nucleotide sequences, genetic tumours 12155
- ***Nicotiana megalosiphon***
  - interspecific hybridization 7398-7399
  - isoenzymes 7398-7399
  - peroxidases 7398
- ***Nicotiana plumbaginifolia***
  - chloroplast genetics 4297
    - ribosomal RNA 12122
    - streptomycin 920, 12122
  - chromosome elimination 13218
  - gamma radiation 2059
  - gene expression 4579
    - adenosinetriphosphatase 8540
    - apoaequorin 1143
    - chitinase 3283
    - cold resistance 6084
    - extensin 12135
    - β-glucanase 6479
    - heat shock 10939
    - isopentenyl transferase 10939
    - stress 12152
    - strictosidine synthase 12286
    - superoxide dismutase 6084, 12152
  - gene mapping 12131
  - genetic engineering
    - adenosinetriphosphatase 8540
    - cold resistance 6084
    - extensin 4313
    - β-glucanase 6479
    - superoxide dismutase 6084
  - genetic transformation 4579, 12129
    - air pollution 6495
    - apoaequorin 1143
- ***Nicotiana plumbaginifolia** cont.*
  - genetic transformation *cont.*
    - chitinase 3283
    - cytokinins 937
    - heat shock 10939
    - isopentenyl transferase 937, 10939
    - *Manduca sexta* 937
    - *Myzus persicae* 937
    - nitrate reductase 6487, 6491
    - ozone 6495
    - photosynthesis 6491, 8310
    - recombination 4294
    - source sink relations 6487
    - strictosidine synthase 12286
    - superoxide dismutase 6495, 8541
    - transposable elements 10930
  - *in vitro* selection, nitrate reductase 13230
  - induced mutations
    - nitrate reductase 13230
    - phytochrome 7396
  - interspecific hybridization 4297
  - *N*-methyl-*N*′-nitro-*N*-nitrosoguanidine 13230
  - molecular genetics 7611, 8549
    - extensin 12135
    - transposable elements 923
    - viruses 6480
  - mutagens 8549, 13230
  - mutations 12129
    - cytokinins 8554, 13222
    - development 8554
    - nitrate reductase 12412
    - ribosomal RNA 12122
    - source sink relations 8554
    - streptomycin 12122
  - nucleotide sequences
    - stress 12152
    - superoxide dismutase 12152
    - transposable elements 4295
    - viruses 6480
  - pleiotropy
    - cytokinins 8554
    - development 8554
    - source sink relations 8554
  - protoplast fusion 2059, 4297, 8549, 13218
  - protoplasts 12129, 13230
  - X radiation 8549
- ***Nicotiana raimondii***
  - interspecific hybridization 13215-13216
  - nucleocytoplasmic interaction
    - haploidy 13216
    - meiosis 13215
    - pollen 13215
- ***Nicotiana rustica***
  - anther culture 1215
  - genetic variance
    - flowering 3284
    - height 3284
  - nucleotide sequences 9717
  - pollen 1215
  - protoplast fusion 7393
- ***Nicotiana suaveolens***
  - cytoplasmic male sterility 12142
  - enzymes 12142
  - esterases 12142
  - genetic transformation, cytoplasmic male sterility 13220
  - isoenzymes 12142
  - protoplast fusion 12142, 13220
- ***Nicotiana sylvestris***
  - chloroplast genetics 4297
  - gamma radiation 2059
  - gene expression 2056, 5444, 5452, 10934
    - binding proteins 10933
    - *Cercospora nicotianae* 5465
    - chitinase 3278, 5465
    - flowers 9726
    - β-glucanase 5465
    - mitochondria 9726
    - photosynthesis 9727
    - Rieske FeS protein 9726
    - tobacco mosaic tobamovirus 5468
    - ubiquitin 12402
  - genetic engineering, peroxidases 1831
  - genetic transformation
    - *Cercospora nicotianae* 5465
    - chitinase 3278, 5465-5466
    - fungi 5466
    - β-glucanase 5465
  - interspecific hybridization 4297

Nicotiana sylvestris *cont.*
- male sterility 2065
- mitochondria 2065
- mitosis 10934
- mutations
  - cell division 929
  - leaves 929
- nucleotide sequences 2056, 5444, 5452
  - binding proteins 10933
  - photosynthesis 7389
- pollen 2065
- proteins 2065
- protoplast fusion 2059, 4297
- protoplasts 10934

Nicotiana tabacum
- abscisic acid 4207
- air pollution 2074
- *Alternaria alternata* 3296
- anatomy 13231
- anther culture 1215, 2064, 2070-2071, 4299, 5460, 6482, 8563
- artificial selection
  - carbon dioxide 3287, 6488
  - photosynthesis 3287, 6488, 9725
  - *Phytophthora nicotianae* 8563, 9732
  - potato Y potyvirus 3311
  - *Pseudomonas syringae* 8563
  - ribulose-bisphosphate carboxylase 3287
  - tobacco mosaic tobamovirus 8563
- backcrossing 5454-5455
- cadmium 13233
- carbohydrates 2071
- cell culture 2076
- cell division 6483
- chimaeras 13217
  - development 4304
  - leaves 7397
  - shoots 4304
- chloroplast genetics 5445, 8548, 8550, 12390
  - adenosinetriphosphatase 12128
  - evolution 11257
- chromosome addition 7392
- chromosome elimination 13218
- chromosome number 13217
- chromosome pairing 6482
- combining ability
  - seedlings 8556
  - yield components 933
- cowpea chlorotic mottle bromovirus 10943
- cucumber mosaic cucumovirus 10942
- cytology, sterols 13223
- cytoplasmic inheritance, pollen 13219
- cytoplasmic male sterility 5454-5455, 12142
- DNA 4298, 7394
- DNA methylation 9723
- drought resistance 934, 8560, 9728, 10938, 13231
- endonucleases 4298
- enzymes 12142
- *Erysiphe cichoracearum* 3296, 3300
- esterases 12142
- fungi 8564
- *Fusarium oxysporum* 12153
- *Fusarium solani* 12153
- gene banks 2050
- gene dosage, lysozyme 8543
- gene expression 2052, 3579, 4306, 6475, 6666, 9997, 10931, 11199, 11209, 12134, 12136-12137, 12139, 13201, 13213-13214
  - abscisic acid 10856
  - acetolactate synthase 908
  - acid phosphatase 10465
  - acyl-acyl-carrier-protein desaturase 10836
  - acyl-CoA desaturase 13232
  - adenosinetriphosphatase 2060, 3475, 6671, 10088, 12128
  - adenosylmethionine decarboxylase 8542
  - *Agrobacterium rhizogenes* 927, 10932
  - albumins 2907, 4199, 6107
  - alcohol dehydrogenase 1830
  - alfalfa mosaic alfamovirus 13235
  - alternative oxidase 13225
  - anthers 2384, 9718
  - antibodies 3277

Nicotiana tabacum *cont.*
- gene expression *cont.*
  - aromatic-L-amino-acid decarboxylase 8732
  - ascorbate oxidase 10705
  - asparaginase 11685
  - auxins 909, 914, 6128
  - *Bacillus thuringiensis* 12156
  - *Botrytis cinerea* 3298, 6499
  - caffeic acid *O*-methyltransferase 8559
  - carbonate dehydratase 12123, 13229
  - catalase 4306
  - catechol *O*-methyltransferase 2057
  - cauliflower mosaic caulimovirus 918, 10925
  - chaperonins 13207
  - chitinase 3278, 3283, 3293, 6500, 7404
  - chlorophyll *a*/*b* binding protein 2356, 5858
  - cinnamyl-alcohol dehydrogenase 13228
  - α-coixin 6883
  - cold resistance 935, 13232
  - β-conglycinin 6123
  - cucumber mosaic cucumovirus 4480, 10945, 10948, 10951, 13235
  - cysteine synthase*O*-acetylserine (thiol) lyase 2458
  - cytochromes 12124, 13237
  - cytokinins 910, 914, 13204
  - development 912, 2384, 9721, 10372
  - diseases 5742, 8562
  - disulfide isomerase 3914
  - dithiothreitol 12126
  - DNA binding proteins 5447, 6883, 10929, 13206, 13209
  - ethylene 2054, 13234
  - extensin 4291, 4313
  - ferredoxin 13210
  - flavonoids 4435
  - flowering 10372
  - flowers 6489, 9726
  - genetic transformation
    - glucose-1-phosphate adenylyltransferase 10566
    - starch 10566
    - stomata 10566
  - *Globodera solanacearum* 4313
  - β-glucanase 9730, 5456, 6479, 9718
  - β-glucuronidase 8547, 9724, 12130, 12138, 13233
  - glufosinate 9973
  - glutamate-ammonia ligase 6174
  - glycine decarboxylase 10520
  - glycinin 3942
  - glycoproteins 12140
  - growth regulators 909-910, 914, 928, 2054, 6128
  - heat shock 5767
  - heat shock proteins 928
  - helianthinin 10856
  - herbicides 4315, 9973, 13237
  - *Heterodera schachtii* 3531
  - histones 12398
  - hydrogen peroxide 4306
  - hydroxymethylglutaryl-CoA reductase 3425
  - hyoscyamine (6*S*)-dioxygenase 13382
  - IAA 910, 928
  - leaves 7397
  - light 13210
  - luciferase 916, 927
  - lysine 4292
  - lysozyme 6506, 8543
  - male sterility 2060
  - mannopine synthase 915, 930
  - *Meloidogyne* 4314
  - *Meloidogyne incognita* 3531
  - *Meloidogyne javanica* 4313
  - metallothionein 13202, 13233
  - methyl jasmonate 3279, 13234
  - mitochondria 9726
  - monosaccharide transporters 911
  - NAA 909
  - napin 4204
  - nicotine 10928
  - nitrate reductase 10926
  - nitrite reductase 4037
  - nitrogen reductase 6476
  - nodulation 912

Nicotiana tabacum *cont.*
- gene expression *cont.*
  - nopaline synthase 4576
  - norflurazon 4315
  - ornithine carbamoyltransferase 3290
  - osmotin 5450, 13234
  - pathogenesis-related proteins 2054, 5450, 6497, 6499, 6504, 6647, 9730, 10653, 10925, 13234
  - pathogens, reviews 2075
  - *Peronospora tabacina* 3289, 5464
  - peroxidases 11123
  - phaseolin 13206
  - phosphate 10465
  - phosphate translocator 7387
  - phosphoglyceromutase 4265
  - photosynthesis 1778, 2067, 12147, 12977, 13229
  - phytoalexins 6499
  - phytochrome 3285, 11398, 13205, 13224
  - phytoene desaturase 4315
  - *Phytophthora infestans* 7404
  - *Phytophthora nicotianae* 3289, 5464
  - plant embryos 11274
  - plum pox potyvirus 3302, 10947
  - pollen 2061, 4593, 5834, 8330, 9721
  - pollen germination 12140
  - pollination 4300
  - polyamines 8542
  - polygalacturonase 9721
  - potato X potexvirus 4480
  - potato Y potyvirus 4480, 10949, 10953
  - proline-rich proteins 4300
  - protein kinase 2055
  - proteinase inhibitors 9720
  - proteins 9722
  - protoplasts 10465
  - *Pseudomonas syringae* 3290
  - putrescine *N*-methyltransferase 10928
  - pyrophosphatase 12147
  - resveratrol 6499
  - reviews 12145
  - *Rhizoctonia solani* 3293, 5464, 6500
  - ribosome inactivating proteins 6500
  - ribozymes 12127
  - ribulose-bisphosphate carboxylase 2067, 12125, 12145, 13226
  - ribulose-bisphosphate carboxylase activase 931, 8557
  - Rieske FeS protein 9726
  - roots 13211
  - salicylic acid 3279, 4306, 10925
  - salinity 3475
  - seeds 6123, 10856
  - self incompatibility 3041
  - senescence 930
  - source sink relations 6232
  - sterility 12141
  - stress 6192, 6680, 12152
  - sucrose 10465, 10932
  - superoxide dismutase 6192, 12152
  - tetracycline 8544
  - thioneins 8953
  - threonine 4292
  - tobacco etch potyvirus 4310
  - tobacco mosaic tobamovirus 918, 2076, 3303, 5469, 5478, 6503-6504, 6506, 10950, 13227
  - tobacco rattle tobravirus 8567
  - tobacco vein mottling potyvirus 10946
  - tomato spotted wilt tospovirus 10952
  - transposable elements 3718, 6579, 8562
  - trihydroxystilbene synthase 6499
  - tryptophan decarboxylase 4470
  - tubulin 3710, 7079
  - ubiquitin 6497
  - vicilin 6107
  - zucchini yellow mosaic potyvirus 3090
- gene mapping, transposable elements 919
- genetic engineering 2342
  - acid phosphatase 10465
  - alfalfa mosaic alfamovirus 5472
  - carbonate dehydratase 12123
  - chitinase 3278, 3283
  - extensin 4291
  - metabolism 8552

- ***Nicotiana tabacum** cont.*
  - genetic engineering *cont.*
    - monosaccharide transporters 911
    - pathogenesis-related proteins 4305
    - *Peronospora tabacina* 5464
    - phosphate 10465
    - phytochrome 13205
    - *Phytophthora nicotianae* 5464
    - protoplasts 10465
    - *Rhizoctonia solani* 5464
    - ribulose-bisphosphate carboxylase 12125
    - roots 13211
    - source sink relations 7686
    - sucrose 10465
    - tobacco etch potyvirus 9733
    - tobacco mosaic tobamovirus 5471-5472
    - tomato golden mosaic bigeminivirus 5477
    - viruses 5477
  - genetic markers
    - spectinomycin adenyltransferase 11880
    - streptomycin 11880
    - variegation 11880
  - genetic resources 907, 13221
  - genetic transformation 57, 921, 2051, 3280, 3531, 3723, 4207, 4296, 4559, 5443, 5448, 5453, 5662, 6475, 6477, 7600, 7883, 8153, 8545-8546, 8673, 9997, 10931, 11199, 11209, 12126, 12134, 12136, 12139, 13201, 13203, 13213-13214
    - abscisic acid 10856
    - acyl-acyl-carrier-protein desaturase 10836
    - acyl-CoA desaturase 13232
    - adenosinetriphosphatase 2060, 6671, 10088
    - adenosylmethionine decarboxylase 8542
    - *Agrobacterium rhizogenes* 927, 5451, 7388, 10932
    - *Agrotis ipsilon* 5482
    - air pollution 8785
    - albumins 2907, 4199, 6107
    - alcohol dehydrogenase 1830
    - alfalfa mosaic alfamovirus 13235
    - antibodies 3277, 4293
    - aromatic-L-amino-acid decarboxylase 8732
    - ascorbate oxidase 10705
    - asparaginase 11685
    - aspartate-ammonia ligase 6172
    - aspartate kinase 4292
    - auxins 914, 3495, 6128, 8149
    - *Bacillus thuringiensis* 12156
    - betaine-aldehyde dehydrogenase 12146
    - *Botrytis cinerea* 3298, 6499
    - bromoxynil 7405
    - cadmium 7391
    - caffeic acid *O*-methyltransferase 8559
    - carbonate dehydratase 13229
    - cauliflower mosaic caulimovirus 10925
    - cecropin 6498
    - cell division 2053
    - chaperonins 4591, 13207
    - chitinase 3293, 5741, 6500, 8565, 10504
    - chlorophyll *a/b* binding protein 2356, 5858
    - chloroplasts 12387
    - chlorsulfuron 6508
    - chymotrypsin inhibitors 8571
    - cinnamyl-alcohol dehydrogenase 13228
    - α-coixin 6883
    - cold resistance 935, 13232
    - β-conglycinin 6123, 9335
    - cucumber mosaic cucumovirus 3306, 4480, 5475, 10945, 10948, 10951, 13235-13236
    - cysteine synthase*O*-acetylserine (thiol) lyase 2458
    - cytochrome P-450 8733
    - cytochromes 13237
    - cytokinins 910, 914, 12150, 13204

- ***Nicotiana tabacum** cont.*
  - genetic transformation *cont.*
    - cytoplasmic male sterility 13220
    - development 912, 2053, 10372
    - dihydrodipicolinate synthase 4292
    - diseases 5742
    - DNA binding proteins 6883, 10929, 13206, 13209
    - ferredoxin 13210
    - flowering 10372
    - flowers 2053, 6489
    - fructans 8553
    - *Fusarium solani* 5743
    - gibberellic acid 5451
    - β-glucanase 9730, 5456, 6479
    - β-glucuronidase 8547, 12130, 12138, 13233
    - glufosinate 9973
    - glufosinate acetyltransferase 7688
    - glutamic acid kinase 7402
    - glutathione reductase 9729
    - glutelins 11556
    - glyceraldehyde-3-phosphate dehydrogenase 10011
    - glycine decarboxylase 10520
    - glycinin 3942
    - grapevine chrome mosaic nepovirus 5474
    - growth regulators 910, 914, 928, 3495, 6128, 7401
    - heat shock 5767
    - helianthinin 10856
    - *Heliothis virescens* 5481
    - herbicides 4315, 6508, 7405, 8785, 9973, 13237
    - histones 12398
    - hordothionins 5463
    - hydroxymethylglutaryl-CoA reductase 3425
    - hyoscyamine (6*S*)-dioxygenase 13382
    - IAA 910, 928
    - insects 8571
    - ioxynil 7405
    - isocitrate lyase 6478, 8477
    - leaves 2053, 7397
    - lettuce mosaic potyvirus 8568
    - levansucrase 8553
    - light 13210
    - luciferase 916, 927
    - lysozyme 8543
    - malate synthase 8477
    - male sterility 2060, 2386, 11242
    - mannopine synthase 915, 930
    - metallothionein 6494, 7391, 13202, 13233
    - methotrexate 7392
    - methyl jasmonate 3279
    - napin 4204
    - nitrate reductase 10926
    - nitrite reductase 4037
    - nitrogen reductase 6476
    - nodulation 912
    - nodulins 2870
    - nopaline synthase 4576
    - norflurazon 4315
    - oleosins 6340
    - ornithine carbamoyltransferase 3290
    - palmitoyl-acyl carrier protein desaturase 8745
    - paraquat 8785
    - pathogenesis-related proteins 5463, 6499, 6504, 9730, 10653
    - *Peronospora tabacina* 936, 3289
    - peroxidases 3511, 4487, 5680, 11123
    - peroxisomes 6478
    - phaseolin 2885, 13206
    - phenylalanine ammonia-lyase 11227
    - photosynthesis 1778, 2067, 6492, 8310, 8555, 12147, 12977, 13229
    - phytoalexins 6499
    - phytochrome 3285, 11398, 13205, 13224
    - phytoene desaturase 4315
    - *Phytophthora nicotianae* 936, 3289
    - plastocyanins 3520
    - plum pox potyvirus 3302, 3310, 10947
    - pollen 4593, 8330, 8477
    - polyamines 8542
    - potato leaf roll luteovirus 4312

- ***Nicotiana tabacum** cont.*
  - genetic transformation *cont.*
    - potato spindle tuber viroid 9723
    - potato X potexvirus 4480, 6502
    - potato Y potyvirus 3301, 4480, 7392, 8568, 8570, 10949, 10953
    - *Pseudomonas* 12478
    - *Pseudomonas solanacearum* 11227
    - *Pseudomonas syringae* 3290, 6498
    - pyrophosphatase 12147
    - pyruvate decarboxylase 12143
    - recombinase 7390
    - recombination 13212
    - replicase 5475
    - resveratrol 6499
    - reviews 12145
    - *Rhizoctonia solani* 3293, 5741, 6500, 8565
    - ribosome inactivating proteins 6500
    - ribozymes 5473, 12127
    - ribulose-bisphosphate carboxylase 2067, 6490, 6493, 8555, 12145, 13226
    - ribulose-bisphosphate carboxylase activase 931, 5155, 8557
    - salicylic acid 3279
    - salinity 7402
    - seeds 6123, 10856
    - self incompatibility 3041
    - senescence 930
    - spectinomycin adenyltransferase 11880
    - *Spodoptera littoralis* 5482
    - streptomycin 11880
    - stress 6192, 6680, 12152
    - sucrose 10932
    - superoxide dismutase 6192, 8785, 12152
    - tetracycline 8544
    - thifensulfuron 6508
    - thioneins 8953
    - thionins 12478
    - tobacco etch potyvirus 4310, 7392
    - tobacco mosaic tobamovirus 3303, 3307, 4308, 5473, 5475, 5478, 6504, 9734, 10950, 13227
    - tobacco rattle tobravirus 8567
    - tobacco vein mottling potyvirus 10946
    - tomato golden mosaic bigeminivirus 3305
    - tomato spotted wilt tospovirus 10952
    - toxic substances 7391
    - transposable elements 3718, 6579, 7888, 7891, 7904, 9049
    - tribenuron 6508
    - trihydroxystilbene synthase 6499
    - tryptophan decarboxylase 4470
    - tubulin 3710, 7079
    - variegation 11880
    - vicilin 6107
    - zucchini yellow mosaic potyvirus 3090
  - genetics
    - cadmium 6494
    - metallothionein 6494
    - sterility 12141
    - tobacco etch potyvirus 3308
    - tobacco mosaic tobamovirus 10942
    - tobacco vein mottling potyvirus 3308
    - toxic substances 6494
  - germination 5456
  - germplasm releases
    - internodes 12149
    - leaves 12149
    - nicotine 12151
  - growth regulators 4207
  - haploidy 6482, 8563, 9732, 13217
  - heat resistance 2063
  - *Heliothis virescens* 2078
  - heterosis, yield components 933
  - humidity 2063
  - hydroxyphenylamines 2073
  - immunology, disulfide isomerase 3914
  - *in vitro* culture 2064, 2072, 4302
  - *in vitro* selection
    - amino acid derivatives 5462, 11276
    - boron 5459
    - chlorsulfuron 4316
    - drought resistance 5462
    - herbicides 4316

Nicotiana tabacum *cont.*
- *in vitro* selection *cont.*
  - nutrients 5459
  - proline 5462
  - salinity 5462, 6496, 11276
  - stress 11276
- induced mutations, ribulose-bisphosphate carboxylase activase 8557
- insects 2077
- interspecific hybridization 3313, 4304, 5454-5455, 7398-7399, 8550, 9734, 13215-13216
- iodoacetic acid 8549
- isoenzymes 7398-7400, 12142
- light 2070, 5460
- linkage
  - methotrexate 7392
  - potato Y potyvirus 7392
  - tobacco etch potyvirus 7392
- *Manduca sexta* 2078
- *Meloidogyne incognita* 10940
- mitochondria 7394
- mitochondrial genetics 8550
- molecular genetics 913, 2052, 3579, 5448, 8548-8549
  - catalase 3512
  - catechol *O*-methyltransferase 2057
  - chitinase 7404
  - flowers 2066
  - gynoecium 2066
  - mannopine synthase 915
  - photosynthesis 6474
  - *Phytophthora infestans* 7404
  - pollen 2061
  - proteinase inhibitors 6505
  - ribozymes 12127
  - ribulose-bisphosphate carboxylase 917
  - source sink relations 6232
  - tobacco mosaic tobamovirus 3309, 6505, 6507
  - transposable elements 922, 924, 2058
- mutagens 8549
- mutations
  - anthers 10936
  - chlorophyll 12148
  - chloroplasts 2068, 12144
  - development 10936
  - flowers 10936
  - germination 12144
  - nitrate reductase 12412
  - photosynthesis 2068, 10937, 12148
  - ribulose-bisphosphate carboxylase 3286
  - sterols 13223
- *Myzus persicae* 2078, 3313
- nucleocytoplasmic interaction
  - growth period 5455
  - haploidy 13216
  - height 5455
  - leaves 5455
  - meiosis 13215
  - pollen 13215
- nucleotide sequences 4306, 7386
  - alternative oxidase 13225
  - anthers 9718
  - binding proteins 13208
  - catalase 4306
  - chitinase 8564
  - cytochromes 12124
  - DNA binding proteins 5447, 6174, 11123
  - extensin 4291
  - β-glucanase 9718
  - lysozyme 6506
  - nicotine 10928
  - osmotin 5450
  - pathogenesis-related proteins 5450
  - phenylalanine ammonia-lyase 9719
  - phosphate translocator 7387
  - phosphoglyceromutase 4265
  - photosynthesis 6474, 7389
  - phytochrome 5449
  - polygalacturonase 9721
  - protein kinase 2055
  - proteinase inhibitors 9720
  - proteins 9722
  - putrescine *N*-methyltransferase 10928
  - tobacco mosaic tobamovirus 6506
- ozone 2074
- *Peronospora tabacina* 3294-3295, 7400

Nicotiana tabacum *cont.*
- peroxidases 4299, 7398
- photosynthesis 5461, 9728, 13227
- *Phytophthora nicotianae* 3297, 3299, 10940-10941
- plant composition 7395
- pollen 1215, 2064, 2072, 4299
- pollen germination 2063, 4302, 6486
- potato X potexvirus 10942
- potato Y potyvirus 3310, 10942
- proline 934
- protoplast fusion 3313, 7393, 8549-8550, 12142, 13218, 13220
- protoplasts 2076, 3288, 3680
- *Pseudomonas solanacearum* 3291-3292
- *Pseudomonas syringae* 3296
- quality 5457-5458
- recombination 921, 8546
- restriction fragment length polymorphism 8550
- ribulose-bisphosphate carboxylase 5461
- salicylic acid 6503
- seeds 7395
- temperature 2063, 6503
- *Thielaviopis basicola* 3297
- *Thielaviopsis basicola* 4307
- tissue culture 2073, 3567, 5814
- tobacco mosaic tobamovirus 2076, 5479
- toxic substances 2073, 13233
- translocation 13227
- transposable elements 6481
  - spectinomycin adenyltransferase 11880
  - streptomycin 11880
  - variegation 11880
- ultraviolet radiation 3288, 4298
- variety classification 13221
- variety trials 3564
- viruses 2342, 3304
- yield components 5457-5458
- varieties
  - KY8959 4290
  - PD4 4648

Nicotiana tomentosiformis
- gene expression
  - flowers 9726
  - β-glucanase 9730
  - mitochondria 9726
  - pathogenesis-related proteins 9730
  - Rieske FeS protein 9726
- genetic engineering
  - β-glucanase 9730
  - pathogenesis-related proteins 9730

***Nicotiana* (×) *Daucus*,** protoplast fusion 8283

***Nicotiana* (×) *Lycopersicon*,** protoplast fusion 4058

***Nicotiana* (×) *Solanum*,** protoplast fusion 925

Nicotiana* (×) *Spinacia
- chlorophyll 3281
- protoplast fusion 3281

Nicotine
- *Nicotiana tabacum*
  - gene expression 10928
  - germplasm releases 12151
  - nucleotide sequences 10928

Nicotinic acid, *Hordeum vulgare* 6826

Nigella sativa
- chromosome aberrations 9914
- ultrasonics 9914

Nilaparvata lugens
- *Oryza australiensis*
  - chromosome addition 8016
  - gene mapping 8057
  - restriction fragment length polymorphism 8057
- *Oryza sativa* 1515, 1602, 1614-1616, 2773, 2776, 3864, 4906, 6053, 7008, 7010, 7994, 8055-8056, 9244, 10336
  - chromosome addition 8016
  - gene mapping 8057
  - genetics 1619, 7009
  - restriction fragment length polymorphism 8057

Nitrate reductase
- *Aegilops* × *Triticum* 5871
- *Arabidopsis thaliana,* gene expression 78
- gene expression 11186
- genetic transformation 11186

Nitrate reductase *cont.*
- *Hordeum vulgare* 277, 7852
  - genetics 12469
  - induced mutations 4759
- mutations 11186
- *Nicotiana plumbaginifolia*
  - genetic transformation 6487, 6491
  - *in vitro* selection 13230
  - induced mutations 13230
  - mutations 12412
- *Nicotiana tabacum*
  - gene expression 10926
  - genetic transformation 10926
  - mutations 12412
- *Oryza sativa* 8025
  - induced mutations 416
- *Petunia hybrida*
  - gene expression 8698
  - nucleotide sequences 8698
- *Phleum pratense* 10407
- *Pinus sylvestris*
  - gene expression 12209
  - nucleotide sequences 12209
- *Saccharum officinarum,* genotype environment interaction 883
- *Sorghum bicolor* 9177
- *Triticum aestivum* 1296, 5869
- *Triticum monococcum,* nucleotide sequences 12469
- *Zea mays, in vitro* selection 5981

Nitrates
- *Arabidopsis thaliana*
  - gene expression 5789
  - nucleotide sequences 5789
- *Cichorium endivia* 10654
- *Daucus carota* 5119
- *Festuca pratensis* 11642
- gene expression 11186
- genetic transformation 11186
- *Glycine max,* mutations 11729
- *Hordeum vulgare* 7853
- *Medicago sativa* 2831
- mutations 11186
- *Raphanus sativus* 9494
- *Solanum tuberosum* 9467
- *Vitis vinifera* 10787

Nitrite reductase
- crops, molecular genetics 5836
- gene expression 11186
- genetic transformation 11186
- *Hordeum vulgare,* gene expression 7846
- mutations 11186
- *Nicotiana tabacum*
  - gene expression 4037
  - genetic transformation 4037
- *Spinacia oleracea*
  - gene expression 4037
  - genetic engineering 4037

Nitrites, *Daucus carota* 5119

Nitrogen
- *Aegilops* × *Triticum* 4698, 5871
- *Agrostis capillaris* 7019
- *Anthoxanthum odoratum* 7019
- *Arachis hypogaea* 863
- *Bromus hordeaceus* 7019
- *Camellia sinensis* 12118
- *Cocos nucifera* 6391, 6398-6400
- *Cucurbita pepo* 6287
- *Cynodon dactylon* 3891
- *Cynodon nlemfuensis* 3891
- *Cynosurus cristatus* 7019
- *Dactylis glomerata* 7019
  - heritability 4915
- *Festuca arundinacea* 11645
- *Festuca pratensis* 11636
- *Festuca rubra* 7019
- *Glycine max* 2867
  - artificial selection 6130
- grasses 10394
- *Helianthus tuberosus* 7187
- *Holcus lanatus* 7019
- *Hordeum vulgare* 4776, 7851-7852, 11389
- *Lolium perenne* 7019, 10394
- molecular genetics, reviews 12395
- *Oryza sativa* 438, 3844, 8035, 11602
  - genetic variance 1948
- *Pinus banksiana* 5591
- *Pinus elliottii* 4367
- *Raphanus sativus* 9494
- *Saccharum officinarum* 12109

Nitrogen *cont.*
- *Solanum oplocense* 611
- *Solanum sparsipilum* 611
- *Solanum tuberosum* 611
- *Sorghum bicolor* 4868, 9175
- *Trifolium repens* 4951
  - artificial selection 7055
  - heritability 7055
- triticale 4805-4806
  - genotype environment interaction 5942
- *Triticum aestivum* 234, 1323, 2480, 4694, 5883, 5885, 10091, 10102, 10118, 10127, 11345, 12554-12555
- *Vigna radiata,* stability 591
- *Zea mays* 6893, 10283, 10286, 11459, 11493
  - combining ability 1460

Nitrogen fixation (*see also Rhizobium)*
- *Arachis hypogaea* 4261, 10882
- evolution 124
- *Glycine max* 2869, 7090, 9363, 10476, 11727
  - artificial selection 9364
  - mutations 9361
- grain legumes 8134
- Leguminosae, reviews 501
- *Lotus corniculatus*
  - gene expression 8122
  - induced mutations 8122
- *Medicago sativa,* gene expression 7051
- *Phaseolus vulgaris* 5032
- *Pisum sativum*
  - genetics 5056
  - heterosis 1741
  - induced mutations 5056-5057
- *Vigna radiata* 6225

Nitrogen ions, *Gossypium* 10965

Nitrogen reductase
- *Nicotiana tabacum*
  - gene expression 6476
  - genetic transformation 6476

Nitrogenase
- *Cicer arietinum,* induced mutations 6202
- *Glycine max* 10487

3-Nitropropionic acid, *Coronilla,* induced mutations 494

Nitroso compounds, *Triticum aestivum* 2463

Nodulation
- *Alnus glutinosa*
  - gene expression 4361
  - molecular genetics 4361
- *Cicer arietinum* 6204
- evolution 124
- *Glycine max* 10487
  - artificial selection 9364
  - gene expression 519-521, 523, 2870, 6140
  - genetic engineering 2870
  - induced mutations 3948
  - linkage 3948
  - molecular genetics 521, 3948, 10468, 11728
  - mutations 522-523, 2867, 9361, 11728-11729
  - restriction fragment length polymorphism 10468
- *Glycine tomentella,* gene expression 520
- *Lotus corniculatus*
  - gene expression 12822
  - genetic transformation 12822
- *Lotus japonicus* 1677
- *Medicago polymorpha* 6081
- *Medicago sativa*
  - gene expression 3918-3919, 7051, 8103, 11665, 12813
  - genetic transformation 3918
  - genetics 3920
  - molecular genetics 3919
  - nucleotide sequences 8103
- *Medicago truncatula*
  - gene expression 3918
  - genetic engineering 3918
- *Melilotus alba,* mutations 3939
- *Nicotiana tabacum*
  - gene expression 912
  - genetic transformation 912
- *Phaseolus vulgaris* 12880
  - induced mutations 8179
  - mutations 5032-5033, 5035

Nodulation *cont.*
- *Pisum sativum*
  - gene expression 521, 558
  - genetics 5056, 11761
    - reviews 6191
  - induced mutations 5056, 7116, 11761, 12898
  - mutations 558, 7115, 8198, 10522
- *Sesbania rostrata*
  - gene expression 12822
  - genetic engineering 12822
- *Vicia faba*
  - gene expression 532
  - mutations 532
- *Vicia hirsuta*
  - gene expression 11681
  - genetic transformation 11681
- *Vicia sativa,* gene expression 521
- *Vigna aconitifolia,* nucleotide sequences 6220
- *Vigna radiata,* heterosis 2939

Nodulins
- *Glycine max*
  - gene expression 2870
  - genetic engineering 2870
- *Lotus corniculatus,* genetic transformation 2870
- *Medicago sativa*
  - gene expression 2824, 11666
  - genetic transformation 11666
  - molecular genetics 2824
- *Medicago truncatula,* nucleotide sequences 8099
- *Nicotiana tabacum,* genetic transformation 2870
- *Pisum sativum*
  - gene expression 557, 3967
  - molecular genetics 8184
  - mutations 8198
  - nucleotide sequences 3967
- *Vicia faba*
  - gene expression 4998
  - nucleotide sequences 4997-4998

Nomenclature 130, 5826, 6720
- *Allium cepa* 9514
- *Allium fistulosum* 9514
- *Alstroemeria isabellana* 2207
- *Arabidopsis thaliana*
  - genetics 10013
  - multiple alleles 10013
- *Bulbophyllum monanthum* 11094
- *Bulbophyllum uniflorum* 11094
- *Cactus opuntia* 1035
- *Clitoria hanceana* 4969
- *Clitoria macrophylla* 4969
- *Cotoneaster hylmoei* 11046
- *Dendrobium* 6595, 12276
- *Desmodium orinocense* 10447
- *Enterolobium glaziovii* 5576
- *Erysimum hedgeanum* 6679
- *Erythrodes amazonica* 1029
- *Erythrodes steyermarkii* 1029
- *Eucalyptus* 3342
- *Festuca* 4924
- *Ficus opposita* 12005
- *Ficus platypoda* 12005
- genetics 3534
- *Geranium hakusanense* 1008
- *Hebe* 12238
- *Hebe adamsii* 13341
- *Hebe murrellii* 13341
- *Hordeum vulgare*
  - mutations 2580
  - restriction fragment length polymorphism 2580
- *Leucaena* 9319
- *Lolium* 4924
- nucleotide sequences 11198
- *Nymphaea* 3424
- *Opuntia humifusa* 1035
- *Opuntia vulgaris* 1035
- *Penstemon* 3387
- *Pleuropogon* 7044
- *Prasophyllum chasmogamum* 12277
- *Prasophyllum correctum* 12277
- *Rubus* 3142
- *Sedum* 1034
- *Solanum maglia* 2972
- *Stictophyllorchis pygmaea* 1029
- *Stictophyllum* 1029
- *Tricholepis* 1029

Nomenclature *cont.*
- varieties 129
- *Vigna subterranea* 12922
- *Watsonia borbonica* 9885
- *Zea mays*
  - genetics 10245
  - restriction fragment length polymorphism 9013

Non-disjunction
- *Asparagus officinalis* 4047
- *Zea mays,* plant embryos 11450

Nopaline synthase
- *Nicotiana tabacum*
  - gene expression 4576
  - genetic transformation 4576

Norflurazon
- *Nicotiana tabacum*
  - gene expression 4315
  - genetic transformation 4315

Nothofagus
- evolution 2123, 11019
- genetic distance, isoenzymes 11019
- leaves 5575
- nucleotide sequences
  - evolution 8622
  - ribulose-bisphosphate carboxylase 8622
- taxonomy 5575, 11019

Nucleases, molecular genetics 12440

Nuclei
- *Actinidia deliciosa* 9604
- *Agrocybe aegerita* 4495
- *Allium cepa* 9604
- *Aloe,* DNA 12280
- *Hordeum vulgare* 9604
- *Ionopsidium savianum* 7509
- *Lilium longiflorum* 12271
- molecular genetics, reviews 11237
- *Pisum sativum* 11238
- *Pyrus pyrifolia* 9604
- *Zea mays* 321, 11238

Nucleocytoplasmic interaction
- *Aegilops longissima* 7753
- *Aegilops uniaristata* 7753
- *Aegilops × Triticum*
  - haploidy 1284, 2473
  - seeds 1299
  - spring and winter habit 10097
  - yield components 2461
- *Arabidopsis thaliana*
  - carotenoids 11216
  - induced mutations 11211
  - variegation 11216
- *Beta maritima,* cytoplasmic male sterility 10907
- *Beta vulgaris,* sugarbeet, cytoplasmic male sterility 10907
- *Brassica napus,* rape, male sterility 6342
- *Capsicum annuum,* height 5199
- *Capsicum chinense,* height 5199
- *Daucus carota*
  - cytoplasmic male sterility 11846
  - development 11846
  - flowers 11846
- *Hordeum vulgare*
  - organelles 10163
  - photosynthesis 10163
- *Nicotiana,* cytoplasmic male sterility 10935
- *Nicotiana knightiana*
  - haploidy 13216
  - meiosis 13215
  - pollen 13215
- *Nicotiana raimondii*
  - haploidy 13216
  - meiosis 13215
  - pollen 13215
- *Nicotiana tabacum*
  - growth period 5455
  - haploidy 13216
  - height 5455
  - leaves 5455
  - meiosis 13215
  - pollen 13215
- *Oryza sativa,* quality 3841
- *Secale × Triticum* 12648
- *Solanum,* tuberous species, male sterility 8244
- *Solanum tuberosum,* male sterility 8244
- triticale 10059, 12648
- *Triticum aestivum* 8884, 10059

- **Nucleocytoplasmic interaction** *cont.*
  - *Triticum aestivum cont.*
    - haploidy 1284, 2468
    - height 10099
    - seeds 1299
    - spring and winter habit 10097
  - *Triticum dicoccoides* 8884
  - *Triticum durum* 7753
    - haploidy 2473
  - *Triticum macha* 8884
  - *Triticum timopheevii* 10059
  - *Vicia faba,* male sterility 11733
  - *Zantedeschia* 9867
  - *Zea* 9066
- **Nucleolus** 2378, 4628
  - *Allium cepa* 7191, 8850, 9505
  - *Allium fistulosum* 2378
  - *Capsicum annuum* 8850
  - *Cicer arietinum* 497
  - *Olea europaea* 13156
  - *Pisum sativum* 497, 1732, 6177, 12890
  - *Secale cereale* 5843
  - *Triticum aestivum* 5843
- **Nucleolus organizer**
  - *Allium cepa* 9505
  - *Cycas revoluta* 4384
  - *Hordeum vulgare* 5843, 12596
  - *Nelumbo lutea* 1036
  - *Pinus sylvestris*
    - molecular genetics 2131
    - restriction fragment length polymorphism 7480
  - *Scilla autumnalis* 7524
  - *Secale cereale,* molecular genetics 3695
  - *Triticum aestivum*
    - gene expression 3592
    - molecular genetics 3592
- **Nucleoside-diphosphate kinase**
  - *Oryza sativa,* nucleotide sequences 3807
  - *Pisum sativum,* nucleotide sequences 9401
- **Nucleoside diphosphate kinase,** *Spinacia oleracea,* nucleotide sequences 3049
- **Nucleotide sequences** 8792-8793, 8795, 11173
  - *Acacia confusa,* trypsin inhibitors 3349
  - *Actinidia deliciosa*
    - cysteine proteinase 1909
    - polygalacturonase 6312
  - *Adiantum capillus-veneris*
    - phytochrome 11095
    - ribulose-bisphosphate carboxylase 8726
  - *Agaricus bisporus* 13401
  - *Amaranthus hypochondriacus,* chlorophyll *a/b* binding protein 11616
  - *Antirrhinum majus*
    - colour 12261
    - epidermis 12261
    - flowers 12261
  - *Arabidopsis thaliana* 1152, 1156, 4584, 8806, 11202, 11223
    - abscisic acid 7630-7631
    - ACC synthase 3503
    - acetyl-CoA carboxylase 12400
    - acyl carrier protein 10009
    - acyl carrier protein thioesterase 5775
    - acyl-CoA desaturase 11207
    - adenosinetriphosphatase 6671, 8811
    - 5′-adenylylphosphosulfate kinase 11208
    - amino acid permease 3497
    - aminoimidazole ribonucleotide synthetase 10005
    - anthocyanins 5779
    - aspartate carbamoyltransferase 10007
    - aspartate kinase 8808
    - auxin binding proteins 8810
    - binding proteins 7628
    - calcium binding proteins 8811
    - calmodulin 5772
    - calnexin 3527
    - carbonate dehydratase 11203, 12401
    - chlorophyll 6676
    - chlorophyll *a/b* binding protein 7629, 12397
    - chloroplasts 8811
    - cold 7659, 12409
    - cold resistance 7627
    - cysteine proteinase 7660
    - dihydrodipicolinate synthase 12187
- **Nucleotide sequences** *cont.*
  - *Arabidopsis thaliana cont.*
    - DNA photolyases 3507
    - drought 7659
    - epoxide hydrolase 11205
    - flowering 5780
    - β-fructofuranosidase 8807
    - gene expression
      - DNA binding proteins 11110
      - light 10000
      - pathogenesis-related proteins 11110
    - geranylgeranyl pyrophosphate synthase 10002
    - gibberellic acid 7638
    - β-glucanase 4203
    - glucose-1-phosphate adenylyltransferase 4590
    - glutamate 1-semialdehyde 2,1-aminomutase 6676
    - glutamine tRNA reductase 6676
    - glutathione reductase 10012
    - glycinamide ribonucleotide transformylase 10005
    - GTP-binding proteins 3526
    - heat shock proteins 11224
    - heavy metals 10028
    - imidazoleglycerol-phosphate dehydratase 12399
    - kinases 12408
    - laminin receptor 4586
    - light 3507
    - lipoxygenase 5768
    - metallothionein 10028
    - methyltransferases 7632, 12406
    - nitrates 5789
    - nutrients 5789
    - organelles 4581
    - orotate phosphoribosyltransferase 10007
    - orotidine-5′-phosphate decarboxylase 10007
    - pathogenesis-related proteins 8822
    - peroxidases 7626
    - phosphatidylcholine desaturase 5781
    - phosphoprotein phosphatase 7630-7631
    - phosphoribosylamine-glycine ligase 10005
    - photosynthesis 7617
    - phytochrome 11200
    - phytoene desaturase 7618
    - phytoene synthase 10003
    - plant hairs 4592
    - protein kinase 2352, 7620, 11201
    - proteins 3502, 4588-4589, 7638
    - ribosomes 4585
    - RNA 8810
    - serine phosphatase 4587
    - stress 6680
    - sucrose transporter 10004
    - sulfate adenylyltransferase 12411
    - thioglucosidase 4583
    - thiol protease 8821
    - threonine phosphatase 4587
    - triose-phosphate isomerase 8809
    - ubiquitin 7615, 12402
    - water balance 11217
    - *Xanthomonas campestris* 8822
  - *Aralia cordata,* cinnamyl-alcohol dehydrogenase 7539
  - *Aranda,* flowers 4453
  - *Artocarpus integer,* lectins 4193
  - *Asparagus officinalis,* ubiquitin 12984
  - *Atriplex nummularia,* glyceraldehyde-3-phosphate dehydrogenase 9922
  - *Avena sativa* 7864, 12635
    - *Cochliobolus victoriae* 12640
    - globulins 12634
    - β-glucanase 4786
    - pathogenesis-related proteins 12640
  - *Beta vulgaris*
    - sugarbeet 4278
      - adenosinetriphosphatase 9704
      - chitinase 9710
  - books 12317-12318
  - *Botrypus strictus,* ribulose-bisphosphate carboxylase 8726
  - *Brassica campestris*
    - glycoproteins 9663
    - self incompatibility 9663
- **Nucleotide sequences** *cont.*
  - *Brassica campestris cont.*
    - turnip rape, thioglucosidase 5350
  - *Brassica juncea,* ACC synthase 7321
  - *Brassica napus*
    - chloroplasts 9660
    - β-glucanase 4203
    - thioglucosidase 1933
    - rape
      - acetohydroxyacid synthase 12033
      - acyl-acyl-carrier-protein desaturase 10836
      - acyl carrier protein thioesterase 4205
      - acyl-CoA desaturase 13122
      - adenosinetriphosphatase 1935
      - chaperonins 12030-12031
      - cold 5353
      - cruciferin 12046
      - fructose-bisphosphatase 8468
      - glutamate-ammonia ligase 5351, 12032
      - glycoproteins 4210
      - oleosins 6340, 13294
      - pollen 5354
      - polygalacturonase 5354
      - proline-rich proteins 5365
      - proteins 8469
      - self incompatibility 4210
      - senescence 13134
      - shedding 5365-5366
  - *Brassica nigra* 13123
  - *Bryonia cretica,* calmodulin 4469
  - *Capsicum annuum,* capsanthin-capsorubin synthase 10692
  - *Carica papaya,* proteinases 3178
  - *Castanea sativa,* ribulose-bisphosphate carboxylase 3184
  - *Catharanthus roseus* 9912
    - adenosylhomocysteinase 9913
    - cell division 9911
    - cytochrome P-450 8733
    - heat shock proteins 2219
    - tryptophan decarboxylase 4470
  - *Cicer arietinum*
    - chitinase 5063
    - cysteine proteinase 9415
  - *Citrullus lanatus* 10699
  - *Clivia miniata,* lectins 8703
  - *Colocasia esculenta,* proteins 12961
  - computer programming 12317-12318, 12377
  - Crassulaceae 8728
  - crops
    - histones 9982
    - taxonomy 11489
  - *Cucumis sativus*
    - ascorbate oxidase 10705
    - ferrochelatase 11381
    - heat shock proteins 11927
    - ribulose-bisphosphate carboxylase activase 7239
  - *Cucurbita,* (*S*)-2-hydroxy-acid oxidase 9562
  - *Cucurbita pepo,* phloem 5213
  - *Cynara cardunculus*
    - cyprosin 8320
    - proteinases 8320
  - databases 2335, 9983, 9985-9986, 11198, 12317-12318
  - *Datura stramonium*
    - gene expression, tropinone reductases, tropinone reductases 11101
    - nucleotide sequences, tropinone reductases, tropinone reductases 11101
    - tropinone reductases, nucleotide sequences, tropinone reductases 11101
  - *Daucus carota* 7173
    - β-fructofuranosidase 10613
    - naringenin-chalcone synthase 10614
  - *Elymus elongatus* 7032, 7035
    - stress 9258
  - *Eruca vesicaria* 7371, 9694
  - *Eucalyptus botryoides,* cinnamyl-alcohol dehydrogenase 8589
  - *Eucalyptus gunnii*
    - caffeic acid *O*-methyltransferase 12184
    - cinnamyl-alcohol dehydrogenase 8588

Nucleotide sequences *cont.*
- evolution 4642, 5816-5818, 5820, 6710, 7675, 8847, 8855, 10048-10049, 11260
  - mathematics 8858, 11258-11259
- *Fagus*
  - evolution 8622
  - ribulose-bisphosphate carboxylase 8622
- *Flaveria pringlei*
  - glycine dehydrogenase (decarboxylating) 9865
  - translocators 4816
- *Flaveria trinervia,* translocators 4816
- gene conversion 5816
- genetic distance 11260
  - computer programming 2372
- *Ginkgo biloba*
  - proteins 13323
  - protochlorophyllide reductase 12226
  - seeds 13323
- *Glycine max*
  - abscission 8155
  - adenosinetriphosphatase 8144
  - δ-aminolevulinic acid dehydratase 10470
  - ascorbate peroxidase 4986
  - brassinosteroids 6126
  - cellulase 8155
  - chlorophyll *a/b* binding protein 10467
  - DNA binding proteins 10464
  - embryogenesis 7080
  - glutathione reductase (NADPH) 9334
  - GTP-binding proteins 11699
  - leghaemoglobin 10464
  - lipoxygenase 10481
  - oxidoreductases 8145
  - phosphoenolpyruvate carboxylase 7078
  - protein kinase 1699
  - pyruvate kinase 4987
  - ubiquitin 9333
  - rape, acyl-CoA desaturase 13122
- *Gossypium hirsutum,* peroxidases 8572
- *Helianthus annuus* 4230
  - anthers 13143
  - heat shock proteins 12057
  - plant embryos 12057
  - transfer RNA 12058
- *Hevea brasiliensis,* ribulose-bisphosphate carboxylase 4344
- *Hordeum vulgare*
  - adenosinetriphosphatase 7839
  - alanine aminotransferase 6842
  - amylase inhibitors 1341
  - β-amylase 12593
  - anoxia 6842
  - calcium binding proteins 10164
  - calreticulin 10164
  - chlorosis 6821
  - cold 3669
  - dioxygenase 12592
  - elongation factors 8951
  - embryology 11378
  - ferrochelatase 11381
  - germin 8950
  - β-glucanase 11379
  - glucose dehydrogenase 12594
  - glutamate synthase 3670
  - haemoglobin 8952
  - heat shock proteins 6841
  - hordein 2583, 3677, 6820
  - lipid transfer proteins 3668, 12604
  - plant embryos 11378
  - ribitol dehydrogenase 12594
  - salinity 8950
  - serpins 1342
  - sucrose synthase 274
  - thioneins 8953
- *Hyoscyamus niger*
  - hyoscyamine (6*S*)-dioxygenase 13382
  - tropinone reductases 8731
- *Ipomoea batatas*
  - β-amylase 11850
  - superoxide dismutase 4018
- Leguminosae, databases 11694
- *Lilium longiflorum,* pollen 12270
- *Linum usitatissimum*
  - acyl-acyl-carrier-protein desaturase 9677
  - flax, peroxidases 7423

Nucleotide sequences *cont.*
- *Lupinus angustifolius*
  - D-alanine transaminase 11682
  - aspartate aminotransferase 8118
- *Lupinus luteus* 6092
- *Lycopersicon chilense,* stress 6262
- *Lycopersicon esculentum* 9539, 11878
  - adenosylmethionine synthetase 9548
  - anthers 1828
  - cathepsin D inhibitor protein 8326
  - chorismate synthase 4055
  - citrus exocortis viroid 8349-8350
  - 3-deoxy-D-*arabino*-heptulosonate 7-phosphate synthase 4054
  - development 8331
  - drought resistance 7215
  - flowers 7219
  - β-fructofuranosidase 9536
  - fruits 9540
  - β-glucanase 8350
  - histidine decarboxylase 1829
  - *Meloidogyne incognita* 10686
  - pathogenesis-related proteins 8349, 12996
  - pectin esterase 9540
  - peroxidases 5171, 9547
  - photosynthesis 7212
  - phytoene desaturase 7213
  - polygalacturonase inhibitor 12996
  - proteinase inhibitors 4056, 9537
  - proteins 6263, 7214
  - *Pseudomonas syringae* 4075
  - ripening 1829, 7215
  - roots 8331
  - schlerenchyma 13008
  - sucrose synthase 8324
  - transferases 12997
  - ubiquitin 8327
  - ubiquitin conjugating enzyme 8325
  - xylem 13008
- *Lycopersicon peruvianum*
  - heat 5173
  - ribonucleases 11879
  - self incompatibility 11879
- *Malus* 7250
  - naringenin 3-dioxygenase 5223
- *Malus pumila* 7251
  - ribulose-bisphosphate carboxylase 9573
  - ribulose-bisphosphate carboxylase activase 1890
- *Manihot esculenta*
  - linamarase 9293
  - starch synthase 4017
- mathematics 5762-5763, 5820, 5823
- *Medicago falcata,* cold resistance 4941
- *Medicago sativa*
  - acetyl-CoA carboxylase 10422
  - D-alanine transaminase 11657
  - annexins 10421
  - chalcone isomerase 8103
  - chalcone *O*-methyltransferase 3913
  - cold resistance 8104
  - naringenin-chalcone synthase 8103
  - nodulation 8103
  - phosphoprotein phosphatase 11659
- *Medicago truncatula*
  - nodulins 8099
  - proline-rich proteins 11658
- *Mesembryanthemum crystallinum* 12279
- messenger RNA 9986
- mutations 8847
- *Nicotiana glauca* 12133
  - *Agrobacterium rhizogenes* 10927
  - genetic tumours 12155
- *Nicotiana langsdorffii,* genetic tumours 12155
- *Nicotiana plumbaginifolia*
  - stress 12152
  - superoxide dismutase 12152
  - transposable elements 4295
  - viruses 6480
- *Nicotiana rustica* 9717
- *Nicotiana sylvestris* 2056, 5444, 5452
  - binding proteins 10933
  - photosynthesis 7389
- *Nicotiana tabacum* 4306, 7386
  - alternative oxidase 13225
  - anthers 9718
  - binding proteins 13208
  - catalase 4306

Nucleotide sequences *cont.*
- *Nicotiana tabacum cont.*
  - chitinase 8564
  - cytochromes 12124
  - DNA binding proteins 5447, 6174, 11123
  - extensin 4291
  - β-glucanase 9718
  - lysozyme 6506
  - nicotine 10928
  - osmotin 5450
  - pathogenesis-related proteins 5450
  - phenylalanine ammonia-lyase 9719
  - phosphate translocator 7387
  - phosphoglyceromutase 4265
  - photosynthesis 6474, 7389
  - phytochrome 5449
  - polygalacturonase 9721
  - protein kinase 2055
  - proteinase inhibitors 9720
  - proteins 9722
  - putrescine *N*-methyltransferase 10928
  - tobacco mosaic tobamovirus 6506
- nomenclature 11198
- *Nothofagus*
  - evolution 8622
  - ribulose-bisphosphate carboxylase 8622
- *Oenothera berteriana* 4418, 8672, 9864
  - transfer RNA 11059
- organelles 9987
- *Oryza sativa* 2730, 10352, 11569-11570
  - acidic ribosomal phosphoprotein 11561
  - binding proteins 403, 12721
  - chitinase 3808
  - computer programming 10357
  - cytochromes 12124
  - cytoplasmic male sterility 3826
  - elongation factors 12720
  - ferredoxin-NADP$^+$ reductase 10351
  - globulins 8010
  - heat shock proteins 12757
  - hydroxymethylglutaryl-CoA reductase 11608
  - malic enzyme 9199
  - nucleoside-diphosphate kinase 3807
  - pathogenesis-related proteins 11608
  - peroxidases 8012
  - phenylalanine ammonia-lyase 400
  - plant embryos 8003
  - prolamins 11559
  - protein kinase 8013
  - ribosomes 4884
  - stress 6970, 11604
  - superoxide dismutase 8000
  - techniques 8008
  - thioltransferase 10358
  - transposable elements 11441
  - vivipary 8003
- *Osmunda cinnamomea,* ribulose-bisphosphate carboxylase 8726
- *Pachyphytum,* proteins 5656
- *Panicum miliaceum*
  - alanine aminotransferase 6842
  - anoxia 6842
- *Pelargonium hortorum* 6564
- *Pennisetum glaucum,* alcohol dehydrogenase 12699
- *Persea americana,* polygalacturonase 5326
- *Petroselinum crispum*
  - gene expression
    - DNA binding proteins 11110
    - pathogenesis-related proteins 11110
- *Petunia hybrida*
  - ACC oxidase 5648
  - colour 4440
  - cytochrome P-450 5647
  - cytoplasmic male sterility 12266
  - dihydrokaempferol 4-reductase 13368
  - flavonoid 3′,5′-hydroxylase 4440
  - flavonol synthase 4437
  - nitrate reductase 8698
  - rhamnosyltransferases 3412-3413
- *Petunia inflata*
  - pectinesterase 12262
  - pollen 11077, 12262
  - receptor-like protein kinases 11077
- *Pharbitis nil,* DNA binding proteins 4415

Nucleotide sequences *cont.*
- *Phaseolus vulgaris* 8171, 11802
  - chitinase 10504
  - lipoxygenase 2886
- *Picea abies,* alcohol dehydrogenase 8639
- *Pinus contorta,* chlorophyll *a/b* binding protein 7481
- *Pinus ponderosa,* oleosins 13294
- *Pinus sylvestris,* nitrate reductase 12209
- *Pinus thunbergii*
  - chlorophyll *a/b* binding protein 7479
  - transfer RNA 12208
- *Pisum sativum*
  - abscisic acid 5046
  - adenosinetriphosphatase 7108
  - chalcone isomerase 10516
  - chlorophyll *a/b* binding protein 8188
  - chloroplasts 11754
  - fructose-bisphosphatase 8194
  - GTP-binding proteins 7107, 10517
  - lectins 5042, 11750
  - nodulins 3967
  - nucleoside-diphosphate kinase 9401
  - phosphoric monoester hydrolases 8183
  - photosynthesis 8185
  - proteins 12889
- polymorphism 8794
- *Populus,* dihydrodipicolinate synthase 12187
- *Populus deltoides,* proteins 5537
- *Populus interamericana,* adenosylmethionine synthetase 5538
- *Prunus persica*
  - polygalacturonase 10758
  - ripening 10758
- *Psophocarpus tetragonolobus,* chymotrypsin inhibitors 5083
- *Pteris vittata,* ribulose-bisphosphate carboxylase 8725
- *Raphanus sativus,* adenosinetriphosphatase 5136
- *Rauvolfia mannii,* strictosidine synthase 12286
- *Rauvolfia serpentina,* strictosidine synthase 12286
- reviews 9985
- ribosomal RNA 10049
- ribulose-bisphosphate carboxylase 10049
- *Ricinus communis*
  - catalase 12092
  - cysteine proteinase 4266
  - phosphoglyceromutase 4265
  - phosphopyruvate hydratase 12094
  - stearoyl-CoA desaturase 12093
- *Rumex acetosa* 7206
- *Saccharum*
  - glucose transporter 8511
  - proteins 5412
- *Sambucus nigra*
  - cellulase 9613
  - β-glucanase 9613
- *Saponaria officinalis,* saporin 4472
- Saxifragaceae 8728
- *Secale cereale*
  - DNA polymerase 3694
  - G proteins 10206
  - organelles 8979
  - repetitive DNA 12642
- *Sinapis alba*
  - allergens 8490
  - photoperiodism 8492
- *Solanum chacoense*
  - glycoproteins 11815
  - self incompatibility 8243, 11815
- *Solanum melongena*
  - cytochromes 11897
  - proteins 4077
- *Solanum tuberosum* 11802
  - chitinase 6229
  - epoxide hydrolase 11800
  - β-glucanase 6229
  - glucose-1-phosphate adenylyltransferase 10566
  - glycine dehydrogenase (decarboxylating) 9452
  - phosphoenolpyruvate carboxylase 3996
  - photosynthesis 1778
  - proteinase inhibitors 3995
  - ribosomes 5089, 12931

Nucleotide sequences *cont.*
- *Solanum tuberosum cont.*
  - Rieske FeS protein 9453
  - sulfate adenylyltransferase 10568
  - ubiquitin 5089
- *Sorghum bicolor,* proteins 6918
- *Spinacia oleracea* 4038
  - fructose-bisphosphatase 8194
  - heat shock proteins 8309, 11868
  - 3-ketoacyl-acyl carrier protein synthase III 6254
  - nucleoside diphosphate kinase 3049
  - phosphoglycerate kinase 9523
  - proteins 9524
  - sucrose phosphate synthase 6256
  - superoxide dismutase 9522
- taxonomy, mathematics 2405
- *Tradescantia paludosa,* pollen 12247
- transposable elements 9981
- *Trifolium repens,* linamarase 9293
- *Trifolium subterraneum,* naringenin-chalcone synthase 12816
- *Triticum aestivum* 5856, 7035, 11309
  - acetyl-CoA carboxylase 4680
  - heat shock proteins 4679
  - meiosis 7748
  - NADH dehydrogenase (ubiquinone) 10080
  - proteins 3593
  - puroindolines 8882
- *Triticum monococcum,* nitrate reductase 12469
- *Vicia faba*
  - cyclophilin 10500
  - GTP-binding proteins 9381
  - legumin 9380
  - nodulins 4997-4998
  - proteins 1716
  - sucrose synthase 4998
- *Vigna aconitifolia,* nodulation 6220
- *Vigna angularis,* chitinase 9440
- *Vigna mungo,* α-amylase 8224
- *Vigna radiata*
  - calmodulin 8225
  - cinnamate 4-hydroxylase 1764
- *Vigna unguiculata,* ferritin 8217
- *Vitis vinifera*
  - enzymes 8429
  - flavonoids 8429
  - stilbenes 8429
- *Zea mays*
  - acetyl-CoA carboxylase 4818
  - adenosinetriphosphatase 12660
  - allergens 5956
  - α-amylase 11432
  - anthocyanins 3722, 3749, 10235
  - calmodulin 10234
  - calmodulin binding proteins 4812
  - chalcone isomerase 3716
  - chlorophyll *a/b* binding protein 4817
  - cystatin 313
  - cysteine endopeptidase 11440
  - cytochrome monooxygenase 10240
  - DNA binding proteins 11429
  - heat shock proteins 7951
  - hypoxia 7955
  - NADH dehydrogenase (ubiquinone) 7886
  - pollen 3714, 11430
  - polygalacturonase 2673
  - proteinase inhibitors 11500
  - sucrose synthase 7885
  - superoxide dismutase 10237
  - taxonomy 11489
  - translocators 4816
  - transposable elements 11430
  - tubulin 3708, 3719
  - β-tubulin 5954

Nullisomic analysis (*see* Gene location)

Nut crops
- genetic resources 4117
- plant introduction 4117
- pollination 4119

Nutrients
- *Agrostis capillaris* 7019
- *Allium cepa* 9513
- *Anthoxanthum odoratum* 7019
- *Arabidopsis thaliana*
  - gene expression 3523, 5789
  - molecular genetics 3523
  - nucleotide sequences 5789

Nutrients *cont.*
- *Arachis hypogaea* 865, 5402, 13163
  - genetics 7365
- artificial selection 11165
- *Beta vulgaris,* sugarbeet 2040
- *Brassica juncea* 4223
- *Brassica napus,* rape 4223, 5884, 6350
- *Bromus hordeaceus* 7019
- *Cajanus cajan* 11774
- *Camellia sinensis* 12118
- *Cocos nucifera* 6398-6400
- crops 2417
  - genetics 7687
- *Cucurbita pepo* 6287
- *Cynodon dactylon* 3891
- *Cynodon nlemfuensis* 3891
- *Cynosurus cristatus* 7019
- *Dactylis glomerata* 7019
  - heritability 4915
- *Festuca arundinacea* 11645
- *Festuca pratensis* 11636
- *Festuca rubra* 7019
- *Glycine max* 1711-1712, 2867, 6139, 8160, 9379
  - artificial selection 2868, 6130
- *Gossypium hirsutum* 2096, 12163
- grasses 10394
- *Holcus lanatus* 7019, 12807
- *Hordeum vulgare* 4776, 7850-7853, 11389, 12477
  - gene expression 12592
- *Lolium perenne* 7019, 10394
- *Lycopersicon esculentum* 5177
- *Manihot esculenta* 8288-8289
- molecular genetics, reviews 12395
- *Nicotiana tabacum, in vitro* selection 5459
- *Oryza glaberrima* 8023
- *Oryza sativa* 438, 1589, 3843-3844, 4894-4895, 4897, 6993, 8023, 8035, 9229, 10382, 11601-11602, 12759
- *Pinus banksiana* 5591
- *Pinus elliottii* 4367
- *Pisum sativum* 9404
- *Raphanus sativus* 9494
- *Saccharum officinarum* 2018, 12109
- *Secale cereale* 12477
  - chromosome addition 12477
  - chromosome substitution 12477
  - gene location 12477
- *Solanum,* tuberous species 1785
- *Solanum oplocense* 611
- *Solanum sparsipilum* 611
- *Solanum tuberosum* 611, 6237, 8257
- *Sorghum bicolor* 1485, 2709, 4866-4868, 9176
- *Trifolium repens* 4950-4952, 7056, 9303
  - artificial selection 7055
  - genetics 1661
  - heritability 7055
- *Trifolium subterraneum* 11676
- triticale 4805-4806
  - genotype environment interaction 5942
- *Triticum aestivum* 234, 1322-1323, 2515, 3621, 3639, 4694, 5883-5885, 8913, 10091, 10102, 10118-10119, 10121-10122, 10127, 11345, 12477, 12554-12555
  - chromosome addition 12477
  - chromosome substitution 12477
  - combining ability 2512
  - genetic variance 3637
  - genetics 2513
  - genotype environment interaction 2510
  - heritability 3637
- *Vaccinium* 4149-4150
- *Vigna unguiculata* 9431
- *Zea mays* 6893, 10283-10284, 10286, 11459, 11493
  - artificial selection 3757
  - combining ability 1460
  - heterosis 4829

Nutritive value
- *Avena sativa,* artificial selection 8974
- *Bambusa beecheyana* 11116
- *Bambusa vario-striata* 11116
- *Brassica,* rape 13140
- *Brassica napus,* rape 5374
- *Cicer arietinum* 5065

- **Nutritive value** *cont.*
  - *Colocasia esculenta* 7183
  - *Coronilla* 494
  - crops 151
    - molecular genetics 10056
  - *Dendrocalamus brandisii* 11116
  - *Dendrocalamus hamiltonii* 11116
  - *Dendrocalamus latiflorus* 11116
  - *Festuca arundinacea* 11645
  - fodder plants 12780
  - *Galega orientalis* 10446
  - *Glycine max* 517, 4978, 9352, 11716
  - grain legumes 4980
    - biotechnology, reviews 4979
    - genetic engineering, reviews 4979
    - reviews 4973, 4978
  - *Hippophae rhamnoides* 3169
  - *Hordeum vulgare* 2619, 6836, 10171, 10178-10179, 12585
    - molecular genetics 1250
    - mutations 12616
  - *Ipomoea batatas* 11851
  - *Lupinus* 2844
    - gene expression 8133
    - genetic transformation 8133
  - *Lupinus albus* 4959, 7065
  - *Lupinus angustifolius* 4959
  - *Lupinus luteus* 4959
  - *Lupinus polyphyllus* 4958
  - *Manihot esculenta* 9482
  - *Medicago sativa* 9284, 10427
    - gene expression 8133
    - genetic transformation 8133
  - *Pennisetum glaucum* 6960
  - *Pennisetum purpureum* 6960
  - *Phaseolus lunatus* 9391
  - *Phaseolus vulgaris* 9390, 12877
  - *Pisum sativum* 1691, 5053, 10523
    - gene expression 8133
    - genetic transformation 8133
  - *Rosa davidii* 728
  - *Sinocalamus stenoauritus* 11116
  - *Sorghum bicolor* 9173, 11524-11525, 11528
  - *Trifolium subterraneum*
    - gene expression 8133
    - genetic transformation 8133
  - *Triticum aestivum,* molecular genetics 1250
  - vegetables 8866
  - *Vicia ervilia* 10439
  - *Vicia faba* 1691, 5010-5012
  - *Vicia narbonensis* 10439
  - *Vicia palaestina* 10439
  - *Vicia sativa* 10439
  - *Vigna umbellata* 11785
  - *Zea mays* 1440, 1448-1451, 5978-5979, 9133, 11471
    - artificial selection 1441-1443
    - combining ability 1443
    - history 1438
    - mutations 1439, 1441
- ***Nymphaea***
  - nomenclature 3424
  - tissue culture 7538
- ***Ocimum***
  - heterosis
    - essential oils 2234
    - yield components 2234
  - seeds 8743
  - taxonomy 8743
- ***Ocimum americanum***
  - heterosis
    - camphor 2235
    - linalool 2235
  - wide hybridization 2235
- ***Ocimum basilicum***
  - genetics, essential oils 13395
  - genotype environment interaction, essential oils 8742
  - varieties
    - Cinnamon 4483
    - Kleinblättriger 4483
    - Lemon 4483
    - Liquorice 4483
- ***Ocimum gratissimum,*** interspecific hybridization 2234
- ***Ocimum viride,*** interspecific hybridization 2234
- ***Ocotea catarinensis,*** embryo culture 6545
- ***Ocotea rugosa,*** taxonomy 8627
- **Octanoic acid**
  - *Cuphea*
    - artificial selection 6433
    - genetics 6433
  - *Cuphea lanceolata*
    - artificial selection 6433
    - genetics 6433
  - *Cuphea viscosissima*
    - artificial selection 6433
    - genetics 6433
- ***Oenothera***
  - genetics
    - male sterility 9871
    - sexual reproduction 2186
  - genomes 1005
  - interspecific hybridization 12255
  - mitochondrial genetics 11058
    - NADH dehydrogenase 8670
  - plastids 1005
- ***Oenothera berteriana***
  - chloroplast genetics 2173
  - mitochondrial genetics 4418, 8672
    - transfer RNA 11059
  - nucleotide sequences 4418, 8672, 9864
    - transfer RNA 11059
- ***Oenothera biennis,*** heritability, fatty acids 8507
- ***Oenothera erythrosepala***
  - interspecific hybridization 12255
  - mutations
    - abnormal development 12255
    - gynoecium 12255
    - sterility 12255
- ***Oenothera hookeri***
  - interspecific hybridization 12255
  - mutations
    - abnormal development 12255
    - gynoecium 12255
    - sterility 12255
- ***Oenothera odorata,*** chloroplast genetics 2173
- ***Oestlundorchis,*** taxonomy 4462
- ***Oidiopsis*** (*see also Leveillula)*
- ***Oidium*** (*see also Leveillula; Microsphaera; Uncinula)*
  - *Lycopersicon esculentum* 10682
- ***Oidium lini,*** *Linum usitatissimum,* linseed 8466
- ***Oidium lycopersici,*** *Lycopersicon* 8343
- **Oils**
  - *Arachis hypogaea* 6421, 7363-7364, 10881
  - *Brassica* 12029
  - *Brassica juncea* 5371, 10847
  - *Brassica napus*
    - rape 3190, 3205, 10847
      - induced mutations 12047
  - *Carthamus tinctorius*
    - artificial selection 1971
    - combining ability 12064
    - genetic variance 12064
  - *Cocos nucifera* 6396
  - *Corylus* 7316
  - *Elaeis guineensis* 6366
  - fatty oil plants
    - genetic engineering 9658
    - induced mutations 9658
  - *Glycine max* 517, 4981
    - artificial selection 3945
    - combining ability 518
    - germplasm releases 9356, 9358
    - induced mutations 1709
  - *Glycine soja* 11721
  - *Gossypium hirsutum*
    - genetic variance 8577
    - maternal effects 8577
  - *Helianthus annuus* 847, 4236, 5383, 5386, 5388, 7348
    - combining ability 7344
    - heterosis 3219
  - *Olea europaea* 5398, 12073-12074
  - *Parthenium argentatum* 12180
  - *Persea americana* 5327
  - *Sesamum indicum* 1993, 6430
  - *Tripsacum dactyloides* 11516
  - *Zea mays* 11470, 11501
    - artificial selection 11473
    - restriction fragment length polymorphism 11473
- **Okadaic acid,** *Brassica alboglabra* 5149
- **Okra (bhendi) yellow vein mosaic bigeminivirus,** *Abelmoschus esculentus* 5220, 8375, 13044
- **Okra yellow vein mosaic bigeminivirus**
  - *Abelmoschus esculentus* 1880
  - *Abelmoschus manihot* 1880
- ***Olea europaea***
  - artificial selection 5394, 6409
  - *Bactrocera oleae* 7357
  - breeding 10052
  - clones 6409
  - cold resistance 5399
  - colour 12073
  - cucumber mosaic cucumovirus 4246
  - fatty acids 1978, 10874
  - flavonoids 7356
  - flowers, statistics 5396
  - fruits 13157
    - statistics 5396
  - genetic resources 10052
  - genetic transformation 6410
  - *in vitro* culture, reviews 3234
  - *Lasioptera berlesiana* 7357
  - molecular genetics 13156
  - nucleolus 13156
  - oils 5398, 12073-12074
  - plant composition 5398
  - pollen 5395
  - quality 12074
  - ripening 7356
  - tissue culture 5397, 6410
  - tocopherols 9686
  - tocotrienols 9686
  - *Verticillium dahliae* 4243-4245
  - waxes 9685
  - varieties, books 3458
- ***Olea palawanensis,*** taxonomy 4242
- ***Olearia × Celmisia,*** intergeneric hybridization 4404
- **Oleic acid**
  - *Arachis hypogaea* 6421, 10881
  - *Helianthus annuus* 5386, 6362
- **Oleosins**
  - *Arabidopsis thaliana*
    - gene expression 8812
    - genetic engineering 8812
  - *Brassica napus*
    - rape
      - gene expression 821, 4213, 6340
      - genetic engineering 6340
      - genetic transformation 8812
      - molecular genetics 13294
      - nucleotide sequences 6340, 13294
  - evolution 13294
  - fatty oil plants 6339
  - *Hordeum vulgare,* gene expression 6829
  - *Nicotiana tabacum,* genetic transformation 6340
  - *Pinus ponderosa*
    - molecular genetics 13294
    - nucleotide sequences 13294
- ***Oligonychus coffeae,*** *Camellia sinensis* 5439
- ***Oligonychus pratensis,*** *Sorghum bicolor* 2714
- **Oligosaccharides**
  - crops 7071
  - fodder legumes 7071
  - grain legumes 7071
  - *Pisum sativum* 4978
  - *Vicia faba* 4978
- ***Olpidium brassicae,*** *Lactuca sativa* 8316
- ***Olyra latifolia***
  - molecular genetics
    - evolution 1645
    - taxonomy 1645
- **Onagraceae**
  - chloroplast genetics
    - evolution 3369
    - ribulose-bisphosphate carboxylase 3369
    - taxonomy 3369
- ***Oncidium,*** tissue culture 13378
- ***Oncidium varicosum,*** tissue culture 8714
- ***Onobrychis viciifolia***
  - isoenzymes 490
  - peroxidases 490
  - protoplasts 9316
  - regenerative ability 8129
  - seed testing 2782
  - tissue culture 8129
  - variety classification 2782

- ***Onobrychis viciifolia*** *cont.*
  - variety trials 2782
  - varieties 4646
- ***Onobrychis*** (×) ***Medicago,*** protoplast fusion 3536, 3889, 4942
- ***Ophiobolus*** (*see Gaeumannomyces)*
- ***Ophiochloa hydrolithica,*** taxonomy 4937
- ***Ophiomyia phaseoli***
  - *Glycine max* 2876
  - *Pisum sativum* 11763
- ***Ophiopogon***
  - genetic resources 9886
  - taxonomy 9886, 13371
- ***Ophrys***
  - plant hairs 9898
  - taxonomy 9898
- ***Opuntia***
  - fruits 812
  - quality 812
- ***Opuntia elizondoana,*** taxonomy 12023
- ***Opuntia ficus-indica,*** parthenocarpy 10823
- ***Opuntia humifusa,*** nomenclature 1035
- ***Opuntia vulgaris,*** nomenclature 1035
- **Orchidaceae**
  - anatomy 9900
  - breeding 6559
  - genetic resources 6559, 6591
  - intergeneric hybridization 9892
  - pollination 7527
  - taxonomy 4456, 9900
  - tissue culture, books 7572
- ***Orchis incarnata,*** tissue culture 9918
- **Organelles**
  - *Arabidopsis thaliana*
    - complementation 4581
    - gene expression 4581
    - nucleotide sequences 4581
  - gene expression 4558
  - *Hordeum vulgare*
    - gene expression 10163
    - mutations 10163
    - nucleocytoplasmic interaction 10163
  - maternal effects 109
  - molecular genetics 11170
  - nucleotide sequences 9987
  - *Pelargonium zonale*
    - cytoplasmic inheritance 4391, 12232
    - genetics 4391
  - *Secale cereale*
    - gene expression 8979
    - nucleotide sequences 8979
  - *Zea mays,* gene expression 9096
- **Organic acids**
  - *Rosa* 5309
  - *Vaccinium ashei* 13077
  - *Vaccinium corymbosum* 13077
  - *Vitis vinifera* 10793
- ***Origanum,*** essential oils 9934
- ***Origanum intercedens***
  - chemotaxonomy 2237
  - essential oils 2237
- ***Origanum onites***
  - essential oils 9934
  - interspecific hybridization 2237
- ***Origanum vulgare***
  - ecotypes 2236
  - essential oils 2236, 9934
  - interspecific hybridization 2237
- **Ornamental conifers**
  - colour, computer programming 12229
  - ornamental value, computer programming 12229
- **Ornamental herbaceous plants**
  - chromosome morphology 11061
  - chromosome number 11061
  - genetic engineering
    - colour 13330
    - flowers 13330
- **Ornamental plants**
  - biotechnology 13329
  - breeding, reports 1069, 5686, 6621
  - chromosome number 7498
  - genetic engineering
    - colour 2151, 9836
    - flowers 2151
  - genetic resources 13328
  - *in vitro* culture 12283
  - plant introduction 3467
  - regenerative ability 12283
- **Ornamental succulent plants**
  - breeding, history 7533
- **Ornamental succulent plants** *cont.*
  - flowers 7532
  - plant introduction 7532
- **Ornamental value**
  - *Abies,* computer programming 12229
  - *Actinidia* 5303
  - *Allium* 10634
  - *Capsicum,* germplasm releases 8358
  - *Crataegus pinnatifida,* induced mutations 10741
  - forest trees 6533
  - *Lepidagathis incurva* 7537
  - ornamental conifers, computer programming 12229
  - ornamental woody plants, computer programming 12229
  - *Otatea acuminata* 11119
  - *Tetrastigma lanceolarium* 7537
  - *Thunbergia grandiflora* 7537
- **Ornamental woody plants**
  - breeding 4115, 9855
  - cold resistance 9855
  - colour, computer programming 12229
  - computer programming 5611
  - databases 5611
  - gene banks 5611
  - ornamental value, computer programming 12229
  - plant introduction 2154
  - tissue culture 4115
  - varieties 4388
- **Ornithine carbamoyltransferase**
  - *Nicotiana tabacum*
    - gene expression 3290
    - genetic transformation 3290
  - *Phaseolus vulgaris*
    - gene expression 5037
    - genetic transformation 5037
- ***Ornithogalum dubium***
  - chromosome aberrations 11080
  - colour 11080
  - embryo culture 11080
  - flowers 11080
  - inflorescences 11080
  - interspecific hybridization 11080
- ***Ornithogalum thyrsoides***
  - chromosome aberrations 11080
  - colour 11080
  - embryo culture 11080
  - flowers 11080
  - inflorescences 11080
  - interspecific hybridization 11080
- ***Orobanche***
  - fodder legumes 7075
  - *Lens culinaris* 8206
  - *Vicia faba* 6153-6154, 8169
- ***Orobanche aegyptiaca,*** *Lycopersicon esculentum* 13022
- ***Orobanche cumana***
  - *Helianthus annuus* 7355
    - genetics 9683
- **Orotate phosphoribosyltransferase,** *Arabidopsis thaliana,* nucleotide sequences 10007
- **Orotidine-5′-phosphate decarboxylase,** *Arabidopsis thaliana,* nucleotide sequences 10007
- ***Orseolia oryzae***
  - *Oryza sativa* 3862-3863, 4905
    - gene mapping 7012
    - random amplified polymorphic DNA 7012
    - restriction fragment length polymorphism 7012
- ***Orseolia oryzivora,*** *Oryza sativa* 448
- ***Orychophragmus*** × ***Brassica,*** intergeneric hybridization 13128
- ***Oryctes rhinoceros,*** *Cocos nucifera* 6408
- ***Oryctolagus cuniculus,*** *Hordeum vulgare* 6855
- ***Oryza***
  - breeding 5839
  - chromosome aberrations 10362
  - cytotaxonomy 6991
  - gene banks 7690
  - gene expression, glutelins 11582
  - gene location 11575
  - gene mapping 3809
  - genetic resources 3793, 5839
  - genomes 6991
  - *Magnaporthe grisea* 3856
- ***Oryza*** *cont.*
  - male sterility 10362
  - *Meloidogyne graminicola* 8054
  - molecular genetics 3809, 8002
    - glutelins 11582
    - transposable elements 4885
  - polymerase chain reaction 12725
  - restriction fragment length polymorphism
    - genomes 2729
    - variety classification 11574
  - rice tungro bacilliform badnavirus 446
  - rice tungro spherical ribotungrovirus 446
  - rice yellow mottle sobemovirus 12773
  - superoxide dismutase 6991
  - transposable elements 12725
    - evolution 12726
- ***Oryza australiensis***
  - chromosome addition
    - *Nilaparvata lugens* 8016
    - *Xanthomonas oryzae* 8016
  - chromosome pairing 3814, 8016
  - gene mapping
    - growth period 8057
    - *Nilaparvata lugens* 8057
  - interspecific hybridization 3814, 8016, 8057
  - restriction fragment length polymorphism
    - growth period 8057
    - *Nilaparvata lugens* 8057
- ***Oryza eichingeri***
  - light 6038
  - photosynthesis 6038
- ***Oryza glaberrima***
  - flooding 8038
  - genetic markers, variety classification 12738
  - nutrients 8023
  - photosynthesis 8023
  - rice tungro bacilliform badnavirus 446
  - rice tungro spherical ribotungrovirus 446, 1612
  - variety trials 8038
- ***Oryza granulata***
  - protoplasts 435
  - regenerative ability 435
- ***Oryza latifolia***
  - gene mapping 12722
  - genomes 12722
  - restriction fragment length polymorphism 12722
- ***Oryza longistaminata,*** self incompatibility 1544
- ***Oryza malampuzhensis,*** *in vitro* culture 1580
- ***Oryza meyeriana***
  - embryology 9222
  - plant embryos 9222
- ***Oryza minuta***
  - embryo culture 6985
  - interspecific hybridization 6033, 6985
  - polymorphism, isoenzymes 6033
- ***Oryza officinalis***
  - embryology 9222
  - gene mapping 12716
  - *Nephotettix nigropictus* 9240
  - *Nephotettix virescens* 9240
  - plant embryos 9222
  - restriction fragment length polymorphism 12716
    - genomes 2729
  - rice tungro bacilliform badnavirus 9240
  - *Xanthomonas oryzae* 2762
- ***Oryza punctata***
  - light 6038
  - photosynthesis 6038
- ***Oryza ridleyi***
  - chromosome pairing 3814
  - interspecific hybridization 3814
  - *Nephotettix nigropictus* 9240
  - *Nephotettix virescens* 9240
  - rice tungro bacilliform badnavirus 9240
- ***Oryza rufipogon***
  - anthers 383
  - cell culture 426
  - embryology 9222
  - evolution 11544
  - genetic resources 383
  - genetics, *Xanthomonas oryzae* 3850
  - habit 383
  - interspecific hybridization 1546, 10362, 11544

Oryza rufipogon *cont.*
- *Nephotettix nigropictus* 9240
- *Nephotettix virescens* 9240
- plant embryos 9222
- protoplasts 426
- *Pyricularia oryzae* 383
- rice tungro bacilliform badnavirus 9240
- *Xanthomonas oryzae* 383, 2762

Oryza sativa
- abscisic acid 9960
- aluminium 1593, 4895, 4897, 12754, 12758-12759
- amylases 2431
- amylose 1586, 6049, 11597, 12749
- anther culture 427-428, 431, 1572-1573, 1576-1577, 3839, 4892, 6045, 6969, 8030, 10376, 11285, 11594, 12745
  - economics 6043
- anthers 418
- archaeology 11600, 12750
- artificial selection 11546, 12707, 12729
  - male sterility 410, 9207
  - *Sogatella furcifera* 2778
  - yield components 1508
- backcrossing 12729
  - male sterility 3825
  - photoperiodism 3825
- bacteria 2759
- biotechnology 1529, 2727
- breeding 1510-1512, 2724, 4878-4879, 4888, 6010, 6963, 9195, 10334, 11268, 11543, 11578
  - history 3794, 6012, 6050, 10335, 12705
  - reviews 10369
- carotenoids 9220
- cell culture 3805, 3816, 6041, 9224, 10375, 12743
- cell division 3816
- centres of origin 2753, 3842, 11600
- *Chilo* 7011
- chlorophyll 3833, 9220
- chloroplast genetics 395, 397, 10381, 11573, 12390
  - chlorophyll *a/b* binding protein 11586
  - chloroplasts 9201
  - photosynthesis 11585, 12737
  - RNA polymerase 7603
- chromosome addition
  - *Nilaparvata lugens* 8016
  - *Xanthomonas oryzae* 8016
- chromosome banding 405
- chromosome morphology 12731
- chromosome pairing 8016
- chromosome translocation 12731
- *Cnaphalocrocis medinalis* 1618, 9243
- *Cochliobolus miyabeanus* 12762
- cold 4896
- cold resistance 441, 1597, 2749, 3848, 6050
- combining ability 12727
  - embryo culture 1570
  - growth period 9221
  - photosynthesis 10367
  - tissue culture 1570
  - yield components 423, 1562-1563, 1565, 1569, 2737, 3835-3836, 8022, 11589, 11592
- compatibility 2742
- computer programming 7007
- crop density 437
- crop mixtures 578
- cryopreservation 6046
- cytology 405
- cytoplasmic male sterility 409, 412, 1533, 1538-1539, 1541-1543, 1545, 1563, 1576, 2734-2735, 2738, 2742, 3820, 3824, 4887, 6027, 6972, 8020-8022, 9208-9209, 10364, 11577
- databases 7007
- development 420, 6036, 8024, 12735
- digestibility 11597
- diseases 1601, 2757, 9229
- DNA 395, 1530
  - polymorphism 10354
- domestication 3842
- dominance
  - anthers 411
  - pollen 411
- dormancy 1553, 9216

Oryza sativa *cont.*
- drought resistance 1599, 2754, 2768, 3846, 8036, 9960, 10385-10386, 11605
- ecotypes 440, 10381
- embryo culture 4890, 6985, 8028-8029, 10378, 12744
- embryology 9222
- ethyl methanesulfonate 4893, 6971, 12734
- ethylene 1554, 2741
- ethyleneimine 4893
- evolution 2753, 3842, 11544, 11600
- fertility 9212
- fertilization 1544
- flooding 437, 443, 1555, 1590-1591, 1595-1596, 2755, 3847, 3849, 3861, 8037-8038, 12752, 12755
- flowering 5835, 10364, 11581
- flowers 409
- fructose-bisphosphatase 441
- *Fusarium oxysporum* 2766
- gamma radiation 416, 1551, 1567, 4893, 6025, 6971, 6977-6978, 8001, 9224, 10361, 12732, 12734
- gene banks 384, 4881, 10338
- gene expression 397, 3804, 3806, 6967, 10060, 11557
  - ACC synthase 444
  - alcohol dehydrogenase 10233
  - α-amylase 3805, 10359, 11565, 11588, 12714
  - binding proteins 12721
  - chitinase 3808
  - chlorophyll *a/b* binding protein 11586
  - chloroplasts 9201
  - cytochromes 12124
  - cytoplasmic male sterility 408
  - development 393, 10372
  - DNA binding proteins 6966
  - flooding 444
  - flowering 10372
  - gibberellic acid 11565
  - glutelins 10379, 11556
  - glycoproteins 9200
  - heat shock proteins 9233, 12757
  - height 12739
  - histones 396, 1276, 3816
  - hydroxymethylglutaryl-CoA reductase 11608
  - interferon 6968
  - luciferase 8011
  - malic enzyme 9199
  - NAD(P)H-plastoquinone-oxidoreductase 12465
  - oryzacystatin 6023
  - pathogenesis-related proteins 11608
  - phosphoenolpyruvate carboxylase 12674
  - photosynthesis 6020, 11585, 12737
  - phytochrome 5930, 6966, 13224
  - plant embryos 8003
  - prolamins 10379, 11559
  - protein kinase 8013
  - pyruvate,orthophosphate dikinase 10273
  - ribosomal RNA 11560
  - ribulose-bisphosphate carboxylase 394, 6975, 12674
  - rice tungro bacilliform badnavirus 11609
  - starch synthase 1528
  - stress 6970, 11604
  - tissue culture 11563
  - transposable elements 7898
  - ubiquitin 1402
  - viruses 11609
  - vivipary 8003
- gene location 12749
  - aldehyde-lyases 12724
  - catalase 3810
  - development 393
  - height 11584
  - isoenzymes 6031
  - oryzacystatin 12724
  - ribosomal RNA 11560
  - *Xanthomonas oryzae* 6051
- gene mapping 2728, 3572, 3809, 6969, 8006, 8009, 9198, 10353, 10355-10356, 11566-11567, 11572, 12716, 12722

Oryza sativa *cont.*
- gene mapping *cont.*
  - databases 8007
  - growth period 8057
  - *Magnaporthe grisea* 12768
  - mitochondria 1526
  - multiple genes 11554
  - *Nilaparvata lugens* 8057
  - *Orseolia oryzae* 7012
- genetic distance 3811
  - yield components 3837
- genetic engineering 6969
  - glutelins 11556
  - glycoproteins 9200
  - histones 396
  - oryzacystatin 6023
- genetic markers 10381, 11567
  - fertility 3815
  - height 12740
  - *Magnaporthe grisea* 7002
  - quality 8032
  - variety classification 12738
  - wide hybridization 3815
- genetic resources 382, 1509, 4880-4881, 6010, 10334, 10337-10338, 12706
  - databases 10336
  - history 6012
- genetic transformation 399, 1524, 2425, 3804-3805, 3812, 4883, 6022, 6967, 10060, 11557, 11562, 12719
  - alcohol dehydrogenase 10233
  - *Chilo suppressalis* 447
  - *Cnaphalocrocis medinalis* 447
  - histones 1276
  - interferon 6968
  - luciferase 8011
  - *Magnaporthe grisea* 8040
  - NAD(P)H-plastoquinone-oxidoreductase 12465
  - pathogens 4899
  - phosphoenolpyruvate carboxylase 12674
  - phytochrome 5930
  - pyruvate,orthophosphate dikinase 10273
  - reviews 12717
  - ribulose-bisphosphate carboxylase 394, 12674
  - rice tungro bacilliform badnavirus 11609
  - stress 4899
  - transposable elements 7898
  - ubiquitin 1402
  - viruses 11609
  - *Xanthomonas oryzae* 8040
- genetic variance 11545
  - amylose 6980
  - anther culture 432
  - cold resistance 12756
  - habit 10370
  - harvest index 1948
  - nitrogen 1948
  - photosynthesis 10367
  - quality 6047
  - seedlings 8026
  - stems 10370
  - yield components 1561, 1569, 11591
- genetics
  - amylose 12746
  - anthocyanins 11587
  - aroma 1584, 6048
  - colour 11587
  - compatibility 10360
  - cytoplasmic male sterility 1546, 2740, 10365
  - endosperm 12736
  - female fertility 2743
  - gibberellic acid 3827, 3832
  - glutelins 3830, 4893
  - growth period 414-415, 3829, 11580
  - growth regulators 3827, 3832
  - gynoecium 406
  - habit 1548, 1559
  - height 413, 419, 1551, 1556, 2748, 3827, 3830, 3832, 9217, 11578, 11584
  - inflorescences 1548, 1557, 2749
  - internodes 1590
  - *Laodelphax striatella* 12761
  - *Magnaporthe grisea* 3858, 12769

***Oryza sativa** cont.*
- genetics *cont.*
  - male sterility 407, 1540, 1545, 2739, 3825, 4886, 8018
  - morphology 6977
  - *Nilaparvata lugens* 1619, 7009
  - photoperiodism 414-415, 2739, 3825, 6037, 11580, 12741
  - plant embryos 12736
  - prolamins 4893
  - proteins 3830
  - *Pyricularia oryzae* 2770
  - rice stripe tenuivirus 12761
  - seedlings 10368
  - seeds 1548, 1557
  - shedding 1556
  - stems 6978
  - sterility 1551, 2743
  - tillering 10368
  - tissue culture 3838
  - wide hybridization 10360, 12733
  - *Xanthomonas oryzae* 1606, 4900, 6051, 6998, 8042-8043, 8047, 10388, 11607
- genomes 7693, 12722
- genotype environment interaction 11545, 12751
- germination 1552, 9219, 10385
- germplasm releases 9194
  - *Magnaporthe salvinii* 9237
  - quality 9227
  - seeds 9227
  - *Xanthomonas oryzae* 12763
- *Gibberella fujikuroi* 8048, 9235-9236
- gibberellic acid 421
- gibberellins 8024
- glucosamine 4901
- glumes 12732
- growth period 2774, 3820, 6981, 8025, 12735
- growth regulators 421, 1554, 2741, 3818, 4892, 8024, 9960
- gynoecium 9219
- habit 1555
- haploidy 1576, 6969, 11285, 11594, 12732
- heat shock proteins 8039
- height 421, 1595-1596, 2755, 3849
- heritability
  - anther culture 4891
  - embryo culture 1570
  - habit 10370
  - plant embryos 1558
  - pollen 6974
  - regenerative ability 4891
  - spikelets 6974
  - stems 10370
  - tissue culture 1570
  - yield components 422, 1567, 1600, 11591-11592
- heterosis 413, 9203
  - growth period 9221, 11580
  - leaves 2745
  - photoperiodism 11580
  - photosynthesis 6034, 10371
  - pollen 6974
  - proteins 6976
  - quality 404, 6047
  - roots 2745
  - spikelets 6974
  - variety classification 6976
  - yield components 404, 422-424, 1562, 1565-1566, 3835-3836, 6979, 6982, 8022, 10373-10374, 12728
  - yields 1534, 2745
- history 1511
- homozygosity 11594
- hybrid seed production 1231, 1532-1533, 1535-1536, 1541, 8014-8015, 11576
- hybrid varieties 6015, 8017, 9196, 10345
- hypoxia 1552, 1554, 12752, 12755
- ideotypes 4888
- *in vitro* culture 162
- *in vitro* selection 6040
  - aluminium 1242
  - *Magnaporthe grisea* 11285
  - proline 11606
  - salinity 1242, 11285, 11606
  - *Xanthomonas oryzae* 2761

***Oryza sativa** cont.*
- inbreeding depression, yield components 422, 424, 10374
- induced mutations 1519, 6025, 9224, 11578, 12749
  - cold resistance 12760
  - endosperm 12736
  - fertility 12760
  - glutelins 4893
  - growth period 414
  - height 1551
  - morphology 6977
  - nitrate reductase 416
  - photoperiodism 414
  - plant embryos 12736
  - prolamins 4893
  - quality 6989
  - repetitive DNA 8001
  - ribosomal DNA 8001
  - starch 6989
  - stems 6978
  - sterility 1551
  - vivipary 12734
  - yield components 1567, 6971, 10361
- insects 1601, 10389
- internodes 421, 1555
- interspecific hybridization 1546, 6033, 6985, 8016, 8057, 10362, 11544
- iron 6992
- isoenzymes 1555
- leaves 418, 1549, 2738, 9220
- light 9220, 10383-10384, 11583
- linkage 3571, 10353
  - aldehyde-lyases 12724
  - anthocyanins 11587
  - colour 11587
  - glutelins 3830
  - height 417, 1551, 1556, 2748, 3830
  - leaf spotting 3857
  - *Magnaporthe grisea* 3857
  - oryzacystatin 12724
  - proteins 3830
  - shedding 417, 1556
  - sterility 1551
  - *Xanthomonas oryzae* 6051
- lipoxygenase 9218
- *Lissorhoptrus oryzophilus* 9241-9242, 10390
- lodging 9213, 9215
- lysine 436
- *Magnaporthe grisea* 2765, 3852-3855, 4879, 6052, 6999-7001, 7003-7007, 8050-8051, 9238-9239, 10336, 12770
- male sterility 418, 2733, 2736-2737, 2741, 3818-3819, 3823, 3836, 6028-6029, 8019, 9210-9212, 10363, 10366
  - photoperiodism 2744
- maltose 6045
- *N*-methyl-*N*-nitrosourea 6989, 12736, 12749
- mitochondrial genetics 1526, 6018, 11572-11573, 12718
  - apocytochrome *b* 392
  - cytoplasmic male sterility 2732, 3826, 6021
- moisture content 1550, 3828
- molecular genetics 1525, 1527, 2730, 3802, 3809, 6019, 8005, 10334, 10355, 11571, 12715
  - ACC synthase 444
  - α-amylase 10359
  - binding proteins 403
  - catalase 3810
  - databases 11568
  - development 393, 10372
  - DNA binding proteins 12674
  - evolution 6735
  - flowering 10372
  - heat shock proteins 9233
  - lactate dehydrogenase 391
  - multiple genes 11554
  - peroxidases 8012
  - phytochrome 5930
  - prolamins 11555
  - ribosomes 402
  - ribulose-bisphosphate carboxylase 398
  - roots 8004
  - starch synthase 1528

***Oryza sativa** cont.*
- molecular genetics *cont.*
  - tissue culture 11563
  - transposable elements 4885
  - variety classification 3803
- morphology 3845
- multiple alleles
  - height 11584
  - plant embryos 12736
  - sterility 12733
- multivariate analysis, yield components 1568, 2751, 3837
- mutagens 4893, 6971, 6989, 8001, 9224, 10361, 12734, 12736, 12749
- mutations
  - gibberellins 3834
  - growth regulators 3834
  - gynoecium 406
  - height 2747, 3834
  - light 6995
  - proteins 9228
  - temperature 6995
- natural selection
  - cold resistance 1598
  - sterility 1598
- *Nephotettix cincticeps* 2774
- neutron radiation 12734
- *Nilaparvata lugens* 1515, 1602, 1614-1616, 2773, 2776, 3864, 4906, 6053, 7008, 7010, 7994, 8055-8056, 9244, 10336
- nitrate reductase 8025
- nitrogen 438, 3844, 8035, 11602
- nucleocytoplasmic interaction, quality 3841
- nucleotide sequences 2730, 10352, 11569-11570
  - acidic ribosomal phosphoprotein 11561
  - binding proteins 403, 12721
  - chitinase 3808
  - computer programming 10357
  - cytochromes 12124
  - cytoplasmic male sterility 3826
  - elongation factors 12720
  - ferredoxin-NADP$^+$ reductase 10351
  - globulins 8010
  - heat shock proteins 12757
  - hydroxymethylglutaryl-CoA reductase 11608
  - malic enzyme 9199
  - nucleoside-diphosphate kinase 3807
  - pathogenesis-related proteins 11608
  - peroxidases 8012
  - phenylalanine ammonia-lyase 400
  - plant embryos 8003
  - prolamins 11559
  - protein kinase 8013
  - ribosomes 4884
  - stress 6970, 11604
  - superoxide dismutase 8000
  - techniques 8008
  - thioltransferase 10358
  - transposable elements 11441
  - vivipary 8003
- nutrients 438, 1589, 3843-3844, 4894-4895, 4897, 6993, 8023, 8035, 9229, 10382, 11601-11602, 12759
- *Orseolia oryzae* 3862-3863, 4905
- *Orseolia oryzivora* 448
- peroxidases 6988
- phenylalanine ammonia-lyase 2767
- phosphorus 1589, 10382, 11601
- photoperiodism 418, 428, 2733, 3819, 3823, 3831, 5835, 8019, 9210-9212, 10363
- photosynthesis 2750, 2758, 4898, 6030, 6035, 8023, 9214, 10383-10384
- physiology 420
  - reviews 10369
- plant disorders 11611
- plant embryos 9222
- plant introduction 3792, 10337, 12705
- pleiotropy, *Pseudomonas fuscovaginae* 1604
- pollen competition 1544
- polyamines 9209
- polymerase chain reaction 1525, 8005
- polymorphism, isoenzymes 6033
- polyploidy 431, 3817, 12732
- potassium 4894, 6993

Oryza sativa *cont.*
  potassium chlorate 6024
  proteins 436, 3833
  protoplasts 429-430, 1574, 3812, 4889, 6041, 6044, 6984, 8011, 10375, 10378
  Pseudomonas glumae 12764
  Pyricularia oryzae 445, 1515, 1602, 1608-1610, 2767-2769, 2771
  quality 436, 1582-1583, 1585-1587, 2757, 3840, 3844, 4879, 6990, 8031, 8033, 9225, 10380, 11553, 11578, 11596, 11598-11599, 12747-12748
  random amplified polymorphic DNA 3811
    genetic markers 11564
    Orseolia oryzae 7012
  ratooning 1547, 3821, 6026
  regenerative ability 1575, 8028
  restriction fragment length polymorphism 154, 401, 1526, 1530, 3571, 6019, 6965, 7693, 9202, 9204, 11185, 11558, 12716, 12722-12723
    aldehyde-lyases 12724
    cytoplasmic male sterility 3822
    fertility 3815
    growth period 8057
    height 417, 12740
    isoenzymes 6031
    Magnaporthe grisea 7002, 12768
    Nilaparvata lugens 8057
    Orseolia oryzae 7012
    oryzacystatin 12724
    quality 8032
    shedding 417
    variety classification 11574
    wide hybridization 3815
  Rhizoctonia solani 1607, 2764, 3851, 4901, 12762
  rice grassy stunt tenuivirus 2772
  rice grassy stunt virus 1611
  rice hoja blanca tenuivirus 8052, 12772
  rice ragged stunt oryzavirus 1611
  rice stripe tenuivirus 3860
  rice tungro bacilliform badnavirus 1613, 3859, 3861, 8053, 12771
  rice tungro spherical ribotungrovirus 1613, 3859, 3861, 12771
  rice tungro virus 1611
  rooting capacity 6032
  roots 1599, 3846, 6032
    techniques 11579
  salinity 1571, 1592, 1594, 1600, 2756, 4894, 6993-6994, 6996, 9230, 9232, 9234, 12753
  Scirpophaga incertulas 1617, 3849, 7011
  seed production 6973
  seedlings 443, 1554
  seeds 3828, 3840, 6030, 8033, 11598
  Sesamia inferens 7011
  Sesamum indicum, crop mixtures 3252
  shade 10384
  silicon 9229
  Sitophilus zeamais 4904
  Sitotroga cerealella 2777, 4902, 11612
  sodium azide 9224, 10361
  Sogatella furcifera 1616, 1620, 2775, 4903, 10336, 11613
  somaclonal variation 1571, 2752, 6040, 10342
    growth period 427
    height 2747
    morphology 427
    seeds 2746
    yield components 1574
  source sink relations 9206
  sprouting 9219
  stability 439, 1588
    yield components 8034, 11603
    yields 11603
  starch 1586-1587, 9226, 11597
  statistics 11545
  stems 1591
  storage, seeds 384
  stress 10336, 10383-10384
  superoxide dismutase 9220
  temperature 428, 1551, 3819, 3829, 6028, 6036, 6973, 9211-9212
  Thanatephorus cucumeris 8049
  Tilletia barclayana 9236

Oryza sativa *cont.*
  tissue culture 433-434, 1572, 1575, 1578-1579, 1581, 6042, 6969, 6983, 6986-6988, 8027, 11595, 12743
    cryopreservation 10377
    techniques 6707
  toxic substances 1593, 4895, 4897, 6024, 12754, 12758-12759
  translocation 9214
  transpiration 2754
  transposable elements 3813
  twinning 1537
  ultraviolet radiation 440, 3845, 4898, 9231
  Ustilaginoidea virens 12767
  varieties
    FBGR861 1519
    FJR832 1519
  variety classification 10381
  variety trials 1513-1515, 3795-3796, 7990, 8038, 10339, 11599, 12707
  vascular system 409, 3846
  viruses 11610
  waterlogging 442
  wide hybridization 1531, 2734, 2747, 3821, 3833, 3839, 6024, 6982, 9202-9206, 12727-12729
  X radiation 1519
  Xanthomonas oryzae 1603, 1605, 2758, 2760, 2763, 6737, 6997, 8041, 8044-8046, 10387, 12762, 12765-12766
  Xanthomonas oryzae pv. *oryzae* 10336
  yield components 413, 437, 1549, 9206, 9229, 10337, 11583
    multivariate analysis 1560
  yield correlations 425, 442, 1564, 2750, 6039, 9223, 11590, 12742
  yields 3849, 6981
  varieties 3798, 8862, 11548
    ADT41 7992
    AS688 11550
    ASD17 11550
    Aya 387
    Bahadur 7991
    Barkat 1521
    Basmati 1523
    Basmati-385 388
    Bengal 1517
    Bogabordhan 7996
    Caiapó 6964
    Cypress 386
    Dellmont 10343
    Dingyin-1 6017
    E164 10350
    EMPASC-105 1520
    Fu-8-1 10053
    Fu You-63 6015
    Guyana-91 1522
    Heizhenmi 10342
    IAC100 4882
    IAC101 4882
    IAC201 4882
    Jarrah 9197
    Ji Ping Guan Dong-107 12710
    Jia-45 11551
    Jiannongzao-11 390
    JJ92 7992
    Ju Sui Nian 10348
    Khao Dawk Mali 1523
    KKP6 7999
    Krasnodarskiĭ-86 389
    KSB54 7994
    Kushal 7991
    LaGrue 11549
    Liao Geng-326 12708
    Long Geng-3 6014, 10349
    Long Jin-1 10346
    Mahi Sugandha 3801
    Maniram 7991
    MDU3 12712
    Netravathi 7999
    Oryzica Caribe-8 11547
    Paritet 3797
    PNR162 1518
    Qi Dao-1 10347
    Ranjit 7991
    Ratnagiri-1 6013
    Rimke 7997
    Rosemont 1516
    RR167-982 7998

Oryza sativa *cont.*
  varieties *cont.*
    Shan You-6216 9196
    Sita 7997
    Suraksha 2725
    Te Qing-2 10340
    Te You-63 10345
    TKM10 12713
    UTL1 1536, 3799
    UTL2 1536, 3799
    Vandana 7998
    Vialone Nano 10344
    VX83 3800
    Wandao-27 10350
    Wei You-647 7993
    Xiang Wan Xian-2 6016
    Xiang Yu-1 11553
    Xiang Zao Xian-15 12709
    Xiang Zhong Xian-3 385
    Xingnong 2726
    Yan Dao-3 11552
    Zao Xian-13 12711
    Zhe-852 10053
    Zhenong-8010 7995
    Zhong Geng 83D 10341
Oryza* (×) *Echinochloa, protoplast fusion 11593
Oryza* (×) *Lotus, protoplast fusion 1672
Oryza* (×) *Lotus, protoplast fusion 12730
Oryza* × *Porteresia
  intergeneric hybridization 2731
  pollen germination 2731
Oryza* × *Triticum
  intergeneric hybridization 7704
  restriction fragment length polymorphism 7704
Oryzacystatin
  Oryza sativa
    gene expression 6023
    gene location 12724
    genetic engineering 6023
    linkage 12724
    restriction fragment length polymorphism 12724
Oryzalin, *Lycopersicon esculentum* 1834
Oscinella, *Hordeum vulgare* 11397
Osmotin
  Nicotiana tabacum
    gene expression 5450, 13234
    nucleotide sequences 5450
Osmunda cinnamomea
  molecular genetics
    ribulose-bisphosphate carboxylase 8726
    taxonomy 8726
  nucleotide sequences, ribulose-bisphosphate carboxylase 8726
Osmunda regalis, molecular genetics 1031
Ostrinia nubilalis
  Zea mays 10302, 11509
    combining ability 7970
    genetic markers 9037
    heterosis 7970
    multiple alleles 9037
    pleiotropy 9150
    popcorn 2701
    sweetcorn, germplasm releases 11514
Otatea acuminata
  ornamental value 11119
  tissue culture 11119
Oulema, *Triticum,* reviews 4749
Oulema melanopus, *Triticum* 4749
Outcrossing
  Abies pinsapo 13318
  Acacia auriculiformis 5555
  Aegilops 7708
  Banksia spinulosa 7501
  Begonia hirsuta 998
  Begonia semiovata 998
  Brassica napus, rape 6354
  Cajanus cajan, mutations 9421
  Capsicum 5198
  Decodon verticillatus 9908
  Eichhornia paniculata 4468
  Erythronium grandiflorum 4444
  Eucalyptus urophylla, isoenzymes 13262
  evolution 1200
    mathematics 6696
  Faidherbia albida 5560
  Glycine max 6129, 9339
  Gossypium hirsutum 7412

- **Outcrossing** *cont.*
  - *Grevillea barklyana* 7503
  - *Hevea brasiliensis* 12175
  - *Hordeum* 7708
  - *Hordeum vulgare,* mutations 7842
  - *Iris fulva* 4445
  - *Iris hexagona* 4445
  - *Lathyrus latifolius* 488
  - *Litchi chinensis* 4185
  - *Macadamia integrifolia* 8461
  - *Macadamia tetraphylla* 8461
  - *Medicago sativa* 6078, 11654
  - *Melaleuca alternifolia* 9936
  - *Mimulus guttatus* 2172
  - mutations 4626
  - *Pachycereus pringlei* 4463
  - *Picea glauca,* statistics 13311
  - *Pinus monticola* 2135
  - *Pinus taeda,* statistics 9807
  - *Pisum sativum* 1734
  - *Salvia pratensis* 8741
  - *Scabiosa columbaria* 13356
  - *Secale* 7708
  - *Sesamum indicum* 13173
  - *Solanum dulcamara* 11811
  - *Solanum nigrum* 11811
  - *Solanum tuberosum* 6354, 8245, 11811
  - *Thuja plicata,* statistics 9807
  - *Trifolium* 11670
  - *Triticum aestivum* 11317
  - *Vicia faba* 5001, 8167
    - genotype environment interaction 11734
    - heritability 11734
  - *Vigna umbellata* 3985
- **Ovaries,** *Allium tuberosum* 635
- **Overdominance** (*see* Heterosis)
- **Ovule culture** 1144
  - *Beta vulgaris,* sugarbeet 7380, 12115, 13185, 13190
  - *Cayratia japonica* 6604
  - *Citrus sinensis* 5320
  - *Citrus* × *Poncirus* 4179
  - *Cynara scolymus* 5166
  - *Ginkgo biloba* 988
  - *Goodyera biflora* 8713
  - *Gossypium hirsutum* 943
  - *Gossypium klotzschianum* 943
  - *Gossypium thurberi* 943
  - *Gypsophila* 9868
  - *Medicago* 1654
  - *Picea sitchensis* 2145
  - *Prunus persica,* growth regulators 8411
  - *Rosa hybrida* 8665
  - *Theobroma cacao* 4288
  - *Triticum aestivum* 225, 11337
  - *Vitis vinifera* 778
    - seedlessness 12001
- **Ovules** 3548
  - angiosperms 1204
  - *Arabidopsis thaliana*
    - gene expression 7642
    - mutations 7642
  - *Blandfordia grandiflora* 9874
  - *Gasteria verrucosa* 2213-2214
  - mutations 3545
  - *Ullucus tuberosus* 10632
  - *Zea mays,* transposable elements 3726
- **Oxalic acid**
  - *Medicago sativa, in vitro* selection 6061
  - *Trifolium alexandrinum, in vitro* selection 6061
  - *Trifolium incarnatum, in vitro* selection 6061
- ***Oxalis thompsoniae,*** taxonomy 8690
- ***Oxalis tuberosa***
  - proteins 1813
  - tubers 1813
  - variety classification 1813
- **Oxidoreductases**
  - *Glycine max,* nucleotide sequences 8145
  - *Phaseolus vulgaris* 5023
- ***Oxycoccus*** (*see Vaccinium)*
- ***Oxytropis tananensis,*** taxonomy 4970
- **Ozone**
  - *Acer saccharum* 5522
  - *Brassica* 8484
  - *Glycine max* 10489
  - *Nicotiana plumbaginifolia,* genetic transformation 6495
  - *Nicotiana tabacum* 2074
- **Ozone** *cont.*
  - *Phaseolus vulgaris* 3963
  - *Picea abies* 7488
  - *Pinus strobus* 5522
  - *Pinus taeda,* genetics 8638
  - *Populus tremuloides* 5522, 5545-5546
  - *Triticum aestivum* 2529
- ***Pachira,*** taxonomy 8625
- ***Pachira yapacanae,*** taxonomy 8625
- ***Pachycereus pringlei***
  - genetics, isoenzymes 4463
  - outcrossing 4463
- ***Pachyphytum,*** nucleotide sequences, proteins 5656
- ***Pachyrhizus aphida,*** variety trials 11856
- ***Pachyrhizus erosus***
  - ethyl methanesulfonate 1814
  - induced mutations
    - proteins 1814
    - starch 1814
  - mutagens 1814
  - variety trials 11856
- ***Pachyrhizus tuberosus,*** variety trials 11856
- **Paclobutrazol,** *Hevea brasiliensis* 9764
- ***Paeonia,*** gamma radiation 5630
- ***Paeonia lactiflora***
  - anther culture 11068
  - embryo culture 6571
- ***Paeonia mlokosevitschii,*** induced mutations, flowers 5630
- ***Palaquium zeylanicum,*** taxonomy 7469
- **Palatability,** *Gliricidia sepium* 4967
- **Palmae,** evolution 5567
- **Palmitic acid**
  - *Glycine max*
    - genetics 8158, 9353, 11722
    - germplasm releases 9355
- **Palmitoyl-acyl carrier protein desaturase**
  - *Coriandrum sativum,* gene expression 8745
  - *Nicotiana tabacum,* genetic transformation 8745
- ***Palmorchis imuyaensis,*** taxonomy 8716
- ***Panax pseudoginseng***
  - cryopreservation, pollen 5667
  - photosynthesis 6602
  - storage, pollen 5667
  - tissue culture 1046
- ***Panax quinquefolius***
  - cryopreservation, pollen 5667
  - storage, pollen 5667
- ***Pandanus eydouxia,*** taxonomy 1062
- ***Pandanus odoratissimus,*** taxonomy 11113
- ***Pandorea baileyana,*** sexual reproduction 9845
- ***Pandorea jasminoides,*** sexual reproduction 9845
- ***Pandorea pandorana,*** sexual reproduction 9845
- ***Panicum***
  - chromosome morphology 9183
  - chromosome number 11533
  - chromosome pairing 9183
  - DNA 9183
  - multivariate analysis, taxonomy 11533
  - polyploidy 9183
  - random amplified polymorphic DNA 11531
- ***Panicum amarum***
  - carbohydrates 5999
  - digestibility 5999
- ***Panicum bombycinum,*** taxonomy 2814
- ***Panicum chillagoanum,*** taxonomy 2814
- ***Panicum coloratum***
  - germplasm releases, shedding 11532
  - habit 4933
  - heritability, yield components 10320
  - internodes 4933
  - seed production 10318
  - shedding 10318
- ***Panicum infestum***
  - apomixis 367
  - genetics
    - apomixis 9185
    - esterases 367
    - isoenzymes 367
    - malate dehydrogenase 367
  - polyploidy 367
- ***Panicum maximum***
  - apomixis 367
- ***Panicum maximum*** *cont.*
  - genetics
    - apomixis 1213, 9185
    - esterases 367
    - isoenzymes 367
    - malate dehydrogenase 367
  - germination 12698
  - germplasm releases, sexual reproduction 10317
  - polyploidy 367, 9184
  - seed production 12698
  - varieties
    - Natsukaze 366
    - Natsuyutaka 365, 2718, 3781
- ***Panicum miliaceum***
  - gene expression
    - alanine aminotransferase 6842
    - anoxia 6842
  - heritability, yield components 6956
  - nucleotide sequences
    - alanine aminotransferase 6842
    - anoxia 6842
  - *Sphacelotheca destruens* 3782
  - yield correlations 368, 6956
  - varieties
    - Veselopodolyanskoe-176 2412
    - Veselopodolyanskoe-862 2412
- ***Panicum robustum,*** taxonomy 2814
- ***Panicum simulans,*** taxonomy 4874
- ***Panicum trichocladum***
  - apomixis 367
  - genetics
    - apomixis 9185
    - esterases 367
    - isoenzymes 367
    - malate dehydrogenase 367
  - polyploidy 367
- ***Panicum turgidum***
  - drought resistance 10321
  - ecotypes 10321
- ***Panicum virgatum***
  - carbohydrates 5999
  - digestibility 5999
  - dormancy 10319
- ***Panicum*** **(×)** ***Paspalum,*** protoplast fusion 11236
- ***Panopsis,*** taxonomy 7468
- ***Papaver argemone***
  - alkaloids 5670
  - chemotaxonomy 5670
- ***Papaver californicum***
  - alkaloids 5670
  - chemotaxonomy 5670
- ***Papaver macrostomum***
  - alkaloids 5670
  - chemotaxonomy 5670
- ***Papaver rhoeas***
  - genetics, self incompatibility 7541-7543, 9915-9916
  - molecular genetics, self incompatibility 3428
- ***Papaver somniferum***
  - cadmium 1052
  - cold 1052
  - combining ability, yield components 2224
  - genetic resources 5660
  - genetic variance, yield components 2224
  - heat shock 1052
  - ideotypes 5660
  - stability, yield components 1051
  - toxic substances 1052
- **Papaveraceae,** taxonomy, books 4517
- **Papaya ringspot potyvirus**
  - *Cucumis melo* 11910
  - *Cucurbita moschata,* artificial selection 11924
- **Papaya ringspot (type W) potyvirus,** *Cucumis melo* 8368
- ***Paphiopedalum insigne,*** molecular genetics, chromosome morphology 2376
- ***Paracoffea,*** *Hemileia vastatrix* 5442
- ***Parahebe***
  - evolution 8661
  - taxonomy 13343
- **Paraquat**
  - *Hordeum murinum,* genetics 5928
  - *Nicotiana tabacum,* genetic transformation 8785
- ***Parardisia,*** taxonomy 2127
- ***Parathesis palaciosii,*** taxonomy 5572

- **Parathion-methyl,** *Hordeum vulgare* 11383
- ***Parthenium argentatum***
  - gene expression, hydroxymethylglutaryl-CoA reductase 2108
  - molecular genetics, hydroxymethylglutaryl-CoA reductase 2108
  - oils 12180
  - polyploidy 12180
  - resins 5515
  - rubber 5515
- **Parthenocarpy**
  - *Allium tuberosum* 635
  - *Citrus maxima* 1914
  - *Cucumis melo* 4105
  - *Cucumis sativus* 10707
  - *Cucurbita pepo* 11917
  - *Opuntia ficus-indica* 10823
  - *Theobroma cacao* 10924
  - *Triticum aestivum* 3613
- ***Paspalidium rarum,*** inflorescences 3899
- ***Paspalum batianoffii,*** taxonomy 2814
- ***Paspalum biaristatum,*** taxonomy 7045
- ***Paspalum cromyorrhizon***
  - chromosome pairing 2811
  - genomes 2811
  - interspecific hybridization 2811
- ***Paspalum dilatatum***
  - chromosome pairing 2811
  - genomes 2811
  - interspecific hybridization 2811
- ***Paspalum distichum***
  - morphology 1640
  - polyploidy 1640
- ***Paspalum indecorum***
  - chromosome pairing 2811
  - genomes 2811
  - interspecific hybridization 2811
- ***Paspalum laxum***
  - chromosome pairing 2811
  - genomes 2811
  - interspecific hybridization 2811
- ***Paspalum longiaristatum,*** taxonomy 3903
- ***Paspalum moratii,*** taxonomy 2817
- ***Paspalum multinodum,*** taxonomy 2814
- ***Paspalum scrobiculatum***
  - *Sorosporium paspali-thunbergii* 8096
  - *Sorosporium paspali-thunbergii* 10419
  - stability 7046
- ***Paspalum* (×) *Panicum,*** protoplast fusion 11236
- ***Passiflora***
  - chloroplast genetics 12020
  - interspecific hybridization 12020
  - maternal effects 12020
  - paternal effects 12020
  - restriction fragment length polymorphism 12020
- ***Passiflora amethystina***
  - protoplasts 4197
  - tissue culture 7313
- ***Passiflora amoena,*** taxonomy 13115
- ***Passiflora callistemma,*** taxonomy 13115
- ***Passiflora cincinnata,*** protoplasts 4197
- ***Passiflora edulis***
  - chloroplast genetics 12020
  - interspecific hybridization 12020
  - maternal effects 12020
  - paternal effects 12020
  - protoplasts 4197
  - restriction fragment length polymorphism 12020
  - tissue culture 7313
- ***Passiflora giberti,*** tissue culture 7313
- ***Passiflora maliformis,*** tissue culture 7313
- ***Passiflora mollissima,*** tissue culture 7313
- **Patatin**
  - *Solanum phureja,* gene expression 2962
  - *Solanum tuberosum*
    - gene expression 2962, 8238, 10577
    - molecular genetics 8238
- **Patents,** genetic resources 1106
- **Paternal effects**
  - *Campanula americana* 3393
  - *Chamaelirium luteum,* statistics 9870
  - *Passiflora* 12020
  - *Passiflora edulis* 12020
  - *Pinus banksiana,* chloroplasts 9813
  - *Pinus contorta,* chloroplasts 9813
  - *Raphanus raphanistrum,* fertility 10630
  - *Zea mays,* photosynthesis 1423
- **Pathogenesis-related proteins**
  - *Arabidopsis thaliana*
    - gene expression 8822, 10031, 12423
      - nucleotide sequences 11110
    - nucleotide sequences 8822
  - *Asparagus officinalis*
    - gene expression 10653
    - genetic engineering 10653
  - *Avena sativa*
    - gene expression 12640
    - nucleotide sequences 12640
  - *Beta vulgaris,* sugarbeet, gene expression 9710
  - gene expression 3309, 6647
  - genetics 3478
  - *Hordeum vulgare*
    - gene expression 290
    - genetic engineering 5463
    - molecular genetics 290
  - *Lactuca sativa,* genetic transformation 4305
  - *Lycopersicon esculentum*
    - gene expression 664, 8349
    - molecular genetics 664
    - nucleotide sequences 8349, 12996
  - *Nicotiana debneyi*
    - gene expression 6497
    - genetic transformation 6497
  - *Nicotiana glutinosa*
    - gene expression 6497
    - genetic transformation 6497
  - *Nicotiana tabacum*
    - gene expression 2054, 5450, 6497, 6499, 6504, 6647, 9730, 10653, 10925, 13234
    - genetic engineering 4305
    - genetic transformation 5463, 6499, 6504, 9730, 10653
    - nucleotide sequences 5450
  - *Nicotiana tomentosiformis*
    - gene expression 9730
    - genetic engineering 9730
  - *Oryza sativa*
    - gene expression 11608
    - nucleotide sequences 11608
  - *Petroselinum crispum,* gene expression, nucleotide sequences 11110
  - *Phaseolus vulgaris,* gene expression 11747
  - *Sorghum bicolor* 12695
  - *Zea mays,* gene expression 11500
- **Pathogens**
  - *Abelmoschus* 1888
  - *Abelmoschus esculentus* 1888, 7244
  - *Aegilops* 7795
  - *Cicer arietinum* 6207
  - crops 1115
    - gene expression 1114
    - gene mapping 3067
    - genetics 3067
  - fodder legumes 7074-7075
  - genetic engineering 4549
    - reviews 33
  - genetic transformation 8561
  - genetics 3477
  - *Gossypium hirsutum* 12164
  - linkage 8787
  - molecular genetics 5730, 9964
    - books 2262
    - reviews 33
  - mutations 9964
  - natural selection 8787
  - *Nicotiana tabacum,* gene expression, reviews 2075
  - *Oryza sativa,* genetic transformation 4899
  - *Salix viminalis* 2121
  - *Solanum tuberosum,* genetic engineering 11835
  - *Triticum* 7795
- ***Paullinia cupana***
  - development 7311
  - leaves 13111
  - roots 7311, 13111
  - shoots 7311
  - stems 13111
  - yield correlations 7311
- ***Paulownia***
  - chloroplast genetics 12196
  - restriction fragment length polymorphism 12196
- ***Paulownia fortunei***
  - interspecific hybridization 12196
  - tissue culture 8619
- ***Paulownia kawakamii,*** interspecific hybridization 12196
- ***Paulownia taiwaniana***
  - chloroplast genetics 12196
  - restriction fragment length polymorphism 12196
- **Pea early browning tobravirus,** *Nicotiana benthamiana,* genetic transformation 5476
- **Pea enation mosaic enamovirus,** *Pisum sativum* 12903
- **Pea seed-borne mosaic potyvirus**
  - *Pisum sativum* 12903-12904
    - gene location 8203
    - genetics 8203, 10527
- **Peanut bud necrosis virus,** *Arachis hypogaea* 7368
- **Peanut stripe potyvirus,** *Arachis hypogaea,* molecular genetics 5404
- **Peanut stunt cucumovirus**
  - *Trifolium repens*
    - combining ability 11679
    - genetic variance 11679
- **Pectin esterase**
  - *Lycopersicon esculentum*
    - gene expression 9540
    - nucleotide sequences 9540
- **Pectinesterase**
  - *Lycopersicon esculentum*
    - gene expression 10667, 13011
    - genetic engineering 666, 13011
    - genetic transformation 666, 10667
  - *Petunia inflata*
    - gene expression 12262
    - nucleotide sequences 12262
- ***Pectinophora gossypiella***
  - *Gossypium* 953-954
  - *Gossypium hirsutum* 5511
- **Pectins**
  - *Allium* 10638
  - *Prunus persica* 8409
  - *Solanum tuberosum* 10588
- ***Pelargonium***
  - breeders' rights 6561
  - essential oils 13397
  - genetic transformation
    - essential oils 6563
    - fragrance 6563
    - habit 6563
  - mutations 9846
  - phenolic compounds 9846
  - variety trials 2155
- ***Pelargonium dolomiticum,*** pollination 2184
- ***Pelargonium enderlicherianum,*** taxonomy 994
- ***Pelargonium graveolens,*** tissue culture 12237
- ***Pelargonium hortorum***
  - anacardic acids 4406
  - chloroplast genetics 6564
  - insects 4406
  - nucleotide sequences 6564
  - tissue culture 3374, 4399, 12236
- ***Pelargonium patulum,*** interspecific hybridization 7500
- ***Pelargonium pinnatum,*** taxonomy 2195
- ***Pelargonium quercetorum,*** taxonomy 994
- ***Pelargonium tomentosum,*** interspecific hybridization 7500
- ***Pelargonium tricolor***
  - flowers 2183
  - pollination 2183
- ***Pelargonium trifoliolatum,*** taxonomy 2195
- ***Pelargonium viciifolium,*** taxonomy 2195
- ***Pelargonium zonale***
  - cytoplasmic inheritance
    - DNA 12232
    - organelles 4391, 12232
    - pollen 12232
  - genetics, organelles 4391
- ***Pelexia asinus,*** taxonomy 8720
- ***Pelexia cundinamarcae,*** taxonomy 8720
- ***Pelexia sinuosa,*** taxonomy 8720
- ***Pellicularia*** (*see also Thanatephorus)*
- ***Pemphigus betae,*** *Populus,* restriction fragment length polymorphism 975
- ***Pemphigus bursarius***
  - *Lactuca sativa* 3052, 9529

- ***Pemphigus bursarius*** *cont.*
  - *Lactuca sativa cont.*
    - genetics 8312
    - genotype environment interaction 7203
    - linkage 7203, 8312
- **Penetrance**
  - *Raphanus sativus*
    - benzyladenine 3032
    - growth regulators 3032
  - *Zea mays,* leaves 7899
- ***Pennisetum***
  - acid phosphatase 6005
  - chemotaxonomy 6005
  - esterases 6005
  - genetic resources 6722, 9186
  - peroxidases 6005
  - quality 6734
  - silage 6734
  - yield correlations 3786
- ***Pennisetum americanum*** (*see Pennisetum glaucum)*
- ***Pennisetum flaccidum***
  - apomixis 6958
  - fertility 6958
  - interspecific hybridization 6958
- ***Pennisetum glaucum***
  - abscisic acid 9960
  - accessory chromosomes 371-372
  - acid phosphatase 6005
  - aneuploidy 6000
  - artificial selection
    - *Claviceps fusiformis* 9189
    - *Sclerospora graminicola* 6961
    - yield components 6003
  - breeding 1491-1492, 3784, 6957, 11280
  - *Cajanus cajan,* crop mixtures 3977, 6213
  - carbohydrates 374
  - chemotaxonomy 6005
  - chromosome addition 6000
  - chromosome banding 6000
  - chromosome morphology 6000
  - *Claviceps fusiformis* 9190, 10331, 12702
  - combining ability 1506
    - cytoplasmic male sterility 6008
    - forage 3788
    - growth period 6002
    - male sterility 7984
    - photoperiodism 6002
    - *Sclerospora graminicola* 6008
    - *Tolyposporium penicillariae* 7986
    - yield components 1504, 3787, 6959, 7984, 10327-10329, 11538-11539
    - yields 3788
  - cytoplasmic male sterility 1494-1495, 1498-1502, 1507, 6001, 7986, 10328
  - drought resistance 376, 9960, 10330
  - embryo sac 9187, 11535
  - esterases 6001, 6005
  - evolution 1505
  - flowering 378
  - flowers 10331
  - forage 4650, 6004
  - fungi 1507
  - gene flow 12700
  - genetic resources 1090, 1491, 6722, 7983, 11280
  - genetic variance
    - height 10326
    - morphology 1503
    - *Sclerospora graminicola* 6961
    - yield components 11538-11539
  - genetic variation
    - esterases 7985
    - isoenzymes 7985
  - genetics, height 11537
  - germination 4876
  - germplasm releases
    - cytoplasmic male sterility 3783
    - digestibility 377
    - diseases 11541
  - gibberellic acid 374
  - growth period 1506
  - growth regulators 374, 9960
  - heterosis
    - development 1496
    - forage 3788
    - leaves 1496
- ***Pennisetum glaucum*** *cont.*
  - heterosis *cont.*
    - yield components 1504, 6959, 10327, 10329, 11538
    - yields 1496, 3788
  - hybrid seed production 1231, 1494-1495
  - hybrid varieties 1506, 10325
  - *in vitro* selection, *Sclerospora graminicola* 6007
  - interspecific hybridization 3786, 6960, 9187, 11540
  - irrigation 9188
  - isoenzymes 9187
  - johnsongrass mosaic potyvirus 2722
  - male sterility 375, 1497
  - mitochondrial genetics, cytoplasmic male sterility 11536, 12701
  - nucleotide sequences, alcohol dehydrogenase 12699
  - nutritive value 6960
  - peroxidases 6005
  - plant composition 6004
  - pollen competition 1505
  - quality 6960
  - restriction fragment length polymorphism, cytoplasmic male sterility 11536, 12701
  - *Rhyzopertha dominica* 9192
  - salinity 3790, 6006
  - *Sclerospora graminicola* 1507, 4877, 12702
  - seeds 10325
  - senescence 10330
  - *Sitophilus oryzae* 9192
  - soil compaction 4876
  - somaclonal variation, *Sclerospora graminicola* 6007
  - sowing date 378, 12702
  - stability
    - forage 7987
    - *Puccinia substriata* 7987
    - quality 7987
  - sugarcane mosaic potyvirus 2722
  - temperature 378
  - tillering 1495
  - tissue culture 11540
  - *Tolyposporium penicillariae* 12702
  - *Tribolium castaneum* 2723, 9192
  - *Trogoderma granarium* 379
  - *Vigna unguiculata,* crop mixtures 9431
  - yield components 375, 1492, 1495, 1497, 3790
  - yield correlations 376, 3785, 3789, 11537
  - varieties
    - ICTP8203 1493
    - PMV2 2721
- ***Pennisetum mezianum***
  - apomixis 6958
  - fertility 6958
  - interspecific hybridization 6958
- ***Pennisetum pedicellatum***
  - breeding 370
  - perennial habit 370
  - physiology 10324
  - variety trials 10324
  - wide hybridization 370
  - varieties, Agros-4 370
- ***Pennisetum purpureum***
  - interspecific hybridization 3786, 6960, 11540
  - morphology 373
  - multivariate analysis 373
  - nutritive value 6960
  - phenolic compounds 9191
  - proteins 9191
  - quality 6960
  - restriction fragment length polymorphism 11534
  - *Setosphaeria turcica* 9191
  - sugars 9191
  - tissue culture 11540
  - variety classification 373
- ***Pennisetum squamulatum***
  - embryo sac 9187
  - interspecific hybridization 9187
  - isoenzymes 9187
- ***Penstemon***
  - evolution 5640
  - genetic markers, isoenzymes 5640
  - interspecific hybridization 5640
  - nomenclature 3387
- ***Penstemon*** *cont.*
  - varieties, Prairie Splendor 9863
- ***Penstemon centranthifolius,*** heritability, flowers 2191
- ***Penstemon cobaea,*** interspecific hybridization 9863
- ***Penstemon triflorus,*** interspecific hybridization 9863
- ***Pentameris,*** taxonomy 4935
- **Pentosans**
  - *Secale cereale* 1386, 12646
  - *Secale vavilovii* 8983
- ***Peperomia,*** taxonomy 12282
- **Pepper mild mottle tobamovirus,** *Capsicum annuum* 9559
- **Pepper mottle potyvirus**
  - *Capsicum* 8363
  - *Capsicum annuum* 8362
  - *Capsicum chinense* 8362
- **Peptides,** crops, genetic transformation 8802
- ***Peregrinus maidis,*** *Zea mays* 348
- **Perennial habit**
  - *Pennisetum pedicellatum* 370
  - *Zea mays* 9107
- **Periderm,** *Solanum tuberosum* 4000
- ***Perilla***
  - plant composition 1998
  - seeds 1998
- ***Peronosclerospora sorghi***
  - *Sorghum bicolor*
    - linkage 6948
    - random amplified polymorphic DNA 6948
    - restriction fragment length polymorphism 6948
  - *Zea mays* 12683
- ***Peronospora destructor***
  - *Allium* 10638
  - *Allium cepa* 3038, 5146
    - molecular genetics 1817
  - *Allium nutans* 5146
  - *Allium roylei,* molecular genetics 1817
- ***Peronospora farinosa,*** *Spinacia oleracea* 10648
- ***Peronospora farinosa* f.sp. *spinaciae,*** *Spinacia oleracea* 12978
- ***Peronospora parasitica***
  - *Arabidopsis thaliana* 11228
    - gene expression 10031
    - gene location 1169, 3530
    - genetics 1169, 3530, 5786, 7231, 11229
  - *Brassica napus,* rape 3199, 8466, 10852
- ***Peronospora schachtii,*** *Beta vulgaris,* sugarbeet 2041
- ***Peronospora sorghi,*** *Sorghum bicolor,* germplasm releases 3778
- ***Peronospora spinaciae,*** *Spinacia oleracea,* genetics 1069
- ***Peronospora tabacina***
  - *Nicotiana tabacum* 3294-3295, 7400
    - gene expression 3289, 5464
    - genetic engineering 5464
    - genetic transformation 936, 3289
- ***Peronospora viciae,*** *Pisum sativum* 7119, 9408
- ***Perotis clarksonii,*** taxonomy 2815
- **Peroxidases**
  - *Amoracia rusticana*
    - gene expression 11123
    - genetic engineering 11123
  - *Arabidopsis thaliana*
    - gene expression 3511
    - genetic engineering 3511
    - nucleotide sequences 7626
  - *Armoracia rusticana* 7560
    - gene expression 4487, 5680
    - genetic engineering 4487, 5680
  - *Bryonia cretica,* gene expression 4471
  - *Camellia* 2158
  - *Dimocarpus longan* 13110
  - gene expression 11187
  - genetic transformation 11187
  - *Glycine max* 4988
    - genetics 6135
  - *Gossypium hirsutum,* nucleotide sequences 8572
  - *Hordeum vulgare,* molecular genetics 5926
  - *Iris* 1022

- **Peroxidases** *cont.*
  - *Linum usitatissimum*
    - flax
      - genetics 12167
      - nucleotide sequences 7423
  - *Lupinus albus* 7065
  - *Lycopersicon esculentum*
    - gene expression 9547
    - genetic transformation 1831
    - mutations 9545
    - nucleotide sequences 5171, 9547
  - *Malus,* genetics 4125
  - *Malus pumila,* genetics 4125
  - *Medicago sativa* 6078, 11664
  - *Musa,* genetic variation 1911
  - *Nicotiana megalosiphon* 7398
  - *Nicotiana sylvestris,* genetic engineering 1831
  - *Nicotiana tabacum* 4299, 7398
    - gene expression 11123
    - genetic transformation 3511, 4487, 5680, 11123
  - *Onobrychis viciifolia* 490
  - *Oryza sativa* 6988
    - molecular genetics 8012
    - nucleotide sequences 8012
  - *Pennisetum* 6005
  - *Pennisetum glaucum* 6005
  - *Phaseolus vulgaris* 3963
  - *Pisum sativum* 2917
  - *Populus alba* 3344
  - *Populus hopeiensis* 3344
  - *Pyrus betulifolia* 7261
  - *Pyrus calleryana* 7261
  - *Rosa* 4410
  - *Trigonella ruthenica* 490
  - *Triticum aestivum* 1302, 6788
    - genetic variance 4701
  - *Vigna mungo,* genetic markers 1765
  - *Vigna radiata* 10561
    - genetic markers 1765
  - *Zea mays* 1419
    - gene expression 9099
    - somaclonal variation 9100
- **Peroxisomes,** *Nicotiana tabacum,* genetic transformation 6478
- ***Persea americana***
  - flowering 13107
  - fruits 13108
  - gene expression, ripening 3180
  - genetic variance, yield components 9630, 12019
  - growth period 1919, 13108
  - heritability, yield components 9630, 12019
  - molecular genetics, ripening 3180
  - nucleotide sequences, polygalacturonase 5326
  - oils 5327
  - pollen 1918, 9629
  - restriction fragment length polymorphism 9630
  - ripening 13108
  - sex 9629
  - tocopherols 5327
- ***Persea fendleri,*** taxonomy 8627
- ***Persea nudigemma,*** taxonomy 8627
- **Persistence**
  - *Dactylis glomerata* 454
  - *Festuca arundinacea* 11643
  - *Festuca pratensis* 11637, 11643
  - *Festuca rubra* 11643
  - *Lolium perenne* 8069
  - *Medicago falcata* 10429
  - *Medicago sativa* 10424, 10429
    - artificial selection 6079
  - *Phalaris aquatica* 10413
  - *Phleum pratense* 12804
  - *Trifolium repens* 1662, 7056, 9296, 11671
    - genetic variance 11674
    - heritability 11674
  - *Trifolium subterraneum* 8111
- **Pest resistance**
  - *Solanum berthaultii* 1799
  - *Solanum tuberosum* 1799
- ***Pestalosphaeria elaeidis,*** *Cocos nucifera* 6405
- **Pesticides**
  - *Hordeum vulgare* 10037, 11383
  - *Pyrus communis* 5240
- **Pesticides** *cont.*
  - *Vicia faba* 10037
- **Pests** 4547
  - *Abelmoschus* 1889
  - *Abelmoschus esculentus* 1889, 7244
  - artificial selection, reviews 34
  - crops 7590, 12373
  - evolution 11168
  - genetic engineering 1117, 5733
    - books 5704
  - genetic transformation 4548
  - genetic variance 11168
  - history, reviews 6650
  - *Juniperus* 2169
  - *Lens culinaris* 6199
  - *Lycopersicon* 6273
  - *Lycopersicon esculentum* 6273
  - *Medicago sativa*
    - artificial selection 2823
    - germplasm releases 478-479, 9291
  - molecular genetics 11169
  - restriction fragment length polymorphism 5732
  - *Solanum tuberosum* 613
    - conferences 13411
  - techniques 8788
  - *Vicia faba* 6152
- ***Petroselinum***
  - chromosome number 2217
  - DNA 2217
- ***Petroselinum crispum***
  - gene expression
    - bergaptol *O*-methyltransferase 11108
    - 4-coumarate:CoA ligase 8744, 11108
    - DNA binding proteins 11109
    - injuries 8744
    - light 11109
    - naringenin-chalcone synthase 7553, 8744, 11108, 12298
    - nucleotide sequences
      - DNA binding proteins 11110
      - pathogenesis-related proteins 11110
    - phenylalanine ammonia-lyase 8744, 11108
    - *Phytophthora megasperma* 3435, 5838
  - genetic transformation, naringenin-chalcone synthase 8491, 12298
  - molecular genetics
    - naringenin-chalcone synthase 12298
    - *Phytophthora megasperma* 3435, 5674
    - tyrosine decarboxylase 8740
- ***Petunia***
  - chimaeras 4438
  - gene expression 4821
    - anthocyanins 4423
    - colour 4423
    - cytoplasmic male sterility 6585
    - flowers 4423
    - naringenin-chalcone synthase 2198, 4423
  - gene mapping 13367
  - genetic engineering 7600
  - genetic transformation 4821
    - pollen 1230
  - mitochondrial genetics 11076
    - NADH dehydrogenase 9977
  - molecular genetics 4563
    - anthers 2198
    - colour 2198
    - cytoplasmic male sterility 6585
    - flavonoids 2198
    - male sterility 2198
    - ribonucleases 6485
    - self incompatibility 6485
  - polyploidy 4438
  - protoplasts 4438
  - random amplified polymorphic DNA 13367
  - somaclonal variation, haploidy 4438
  - transposable elements 4821
- ***Petunia hybrida***
  - androecium 9882
  - anthocyanins 8663
  - colour 8663
  - compatibility 9882
  - flavonoid 3′,5′-hydroxylase 8663
  - flavonols 9882
  - flowers 7521
- ***Petunia hybrida*** *cont.*
  - gene expression 7521, 11443
    - alcohol dehydrogenase 2199
    - anthocyanins 4439
    - colour 2197, 4440
    - cysteine proteinase 1909
    - development 3416-3417
    - dihydrokaempferol 4-reductase 9881, 13368
    - flavonoid 3′,5′-hydroxylase 4440
    - flavonoids 2197
    - flavonol synthase 4437
    - flavonols 12265
    - floral binding protein 3415
    - flowers 2197, 3416-3417
    - β-glucuronidase 12264
    - hypoxia 2199
    - injuries 6583
    - kanamycin 7522
    - neomycin phosphotransferase 12264
    - nitrate reductase 8698
    - photosynthesis 6586
    - pollen germination 12265
    - pollination 6583
    - protoplasts 1016
    - rhamnosyltransferases 3412
    - transposable elements 3729
  - gene location, dihydrokaempferol 4-reductase 13368
  - gene mapping 13367
    - alcohol dehydrogenase 1014
  - genetic engineering
    - colour, reviews 1019
    - dihydrokaempferol 4-reductase 13368
    - flavonoids, reviews 1019
    - ribulose-bisphosphate carboxylase 11880
  - genetic transformation 8699-8700, 11443, 12263
    - cysteine proteinase 1909
    - dihydrokaempferol 4-reductase 4441, 9881, 13368
    - flavonoids 4441
    - flavonols 12265
    - floral binding protein 3415
    - β-glucuronidase 12264
    - naringenin-chalcone synthase 9882
    - neomycin phosphotransferase 12264
    - photosynthesis 6586
    - pollen germination 12265
    - protoplasts 1016
    - transposable elements 3729, 13366
  - genetics
    - β-glucuronidase 12264
    - neomycin phosphotransferase 12264
    - regenerative ability 1020
  - gynoecium 9882
  - *in vitro* selection, kanamycin 7522
  - incompatibility 5649
  - interspecific hybridization 8701
  - mitochondrial genetics 1017, 3492
    - cytoplasmic male sterility 1018, 6584, 12266
    - recombination 1018
  - molecular genetics
    - alcohol dehydrogenase 2199
    - development 3416
    - flowers 3416
    - hypoxia 2199
    - proteins 1015
    - rhamnosyltransferases 3413
    - self incompatibility 1235, 3414
  - mutations 7521
    - development 3416
    - flavonols 12265
    - flowers 3416
    - pollen germination 12265
  - nucleotide sequences
    - ACC oxidase 5648
    - colour 4440
    - cytochrome P-450 5647
    - cytoplasmic male sterility 12266
    - dihydrokaempferol 4-reductase 13368
    - flavonoid 3′,5′-hydroxylase 4440
    - flavonol synthase 4437
    - nitrate reductase 8698
    - rhamnosyltransferases 3412-3413
  - pH 8663
  - pollination 5650
  - polymerase chain reaction, alcohol dehydrogenase 1014

- ***Petunia hybrida*** *cont.*
  - protoplast fusion 8701
  - protoplasts 8702
  - random amplified polymorphic DNA 13367
  - sugars 5649
  - transposable elements 11443
  - ultraviolet radiation 8699
  - X radiation 8699
- ***Petunia inflata***
  - gene expression
    - pectinesterase 12262
    - pollen 11077, 12262
    - receptor-like protein kinases 11077
  - genetic transformation
    - ribonucleases 6582
    - self incompatibility 6582
  - nucleotide sequences
    - pectinesterase 12262
    - pollen 11077, 12262
    - receptor-like protein kinases 11077
- ***Petunia parodii,*** mitochondrial genetics, cytoplasmic male sterility 6584
- ***Petunia variabilis***
  - interspecific hybridization 8701
  - protoplast fusion 8701
- ***Peucedanum***
  - chemotaxonomy 13388
  - chromosome number 13388
- **pH**
  - *Petunia hybrida* 8663
  - *Rosa,* molecular genetics 8663
- ***Phacelia dubia***
  - hermaphroditism 4422
  - male sterility 4422
  - population genetics 9872
- ***Phacelia linearis***
  - hermaphroditism 7510
  - natural selection, flowers 7510
  - seed production 7510
- ***Phaius tankervilleae***
  - fertility 8710
  - pollination 8710
- ***Phaius* × *Spathoglottis,*** intergeneric hybridization 8710
- ***Phalaenanthe* × *Ceratobium,*** intergeneric hybridization 13376
- ***Phalaenanthe* × *Eleutheroglossum,*** intergeneric hybridization 13376
- ***Phalaenopsis***
  - colour 9895
  - gene expression
    - ACC oxidase 3421
    - pollination 3421
  - germination 12273
  - isoenzymes 12274
  - polymorphism, isoenzymes 9894
  - tissue culture 12273, 13378
  - variety classification 9894
- ***Phalaris,*** taxonomy 4934
- ***Phalaris aquatica***
  - artificial selection, soil pH 2820
  - cutting 10413
  - genetics
    - aluminium 2820
    - manganese 2820
    - toxic substances 2820
  - persistence 10413
  - varieties, Holdfast 1639
- ***Phalaris arundinacea***
  - artificial selection, soil pH 2820
  - digestibility 10409
- ***Phalaris minor,*** herbicides 9279
- ***Phanerochaete chrysosporium,*** molecular genetics, glyceraldehyde-3-phosphate dehydrogenase 1064
- ***Pharbitis nil***
  - gene expression
    - DNA binding proteins 4415
    - photoperiodism 8681
  - gene mapping
    - dihydrokaempferol 4-reductase 8675
    - flowers 8675
  - mutations
    - dihydrokaempferol 4-reductase 8675
    - flowers 8675
  - nucleotide sequences, DNA binding proteins 4415
  - transposable elements
    - dihydrokaempferol 4-reductase 8675
    - flowers 8675
- ***Pharbitis purpurea***
  - genetics
    - *Coleosporium ipomoeae* 3402
    - *Colletotrichum dematium* 3402
    - colour 2190
    - flowers 2190
  - natural selection
    - *Colletotrichum dematium* 4433
    - colour 2190
    - flowers 2190
    - insects 4433
  - polymorphism
    - colour 12254
    - flowers 12254
  - self pollination 12254
- **Pharmaceutical products,** *Rosa* 5309
- **Phaseolin**
  - molecular genetics 13206
  - *Nicotiana tabacum*
    - gene expression 13206
    - genetic transformation 2885, 13206
  - *Phaseolus lunatus* 12878
  - *Phaseolus vulgaris*
    - gene expression 2885, 8172
    - genetic engineering 2885, 13206
    - genetics 3961
    - molecular genetics 8172
- ***Phaseolus*** (*see also Macroptilium; Vigna*)
  - breeding 1688
  - chloroplast genetics, taxonomy 5031
  - chromosome banding 8228
  - cytotaxonomy 8228
  - databases 11736
  - genetic resources 12871
  - genetics
    - colour 12874
    - flowers 12874
  - linkage, restriction fragment length polymorphism 12826
  - mutations
    - colour 12874
    - flowers 12874
  - photosynthesis 5026
  - plant hairs 7103
  - polymerase chain reaction, leghaemoglobin 3959
  - restriction fragment length polymorphism, taxonomy 5031
  - ribulose-bisphosphate carboxylase 5026
  - taxonomy 10562
  - *Uromyces appendiculatus* 7103
- ***Phaseolus acutifolius***
  - albumins 538
  - embryo culture 11743
  - *Fusarium oxysporum* 9396
  - germination 7102
  - heat resistance 7102
  - interspecific hybridization 11743
  - salinity 6166
  - tissue culture 1725
- ***Phaseolus coccineus***
  - albumins 538
  - chloroplast genetics
    - evolution 12879
    - taxonomy 12879
  - colour 537
  - gene location, polygalacturonase-inhibiting protein 5022
  - interspecific hybridization 8177-8178, 12874
  - mitochondrial genetics, cytoplasmic male sterility 11744
  - restriction fragment length polymorphism
    - cytoplasmic male sterility 11744
    - polygalacturonase-inhibiting protein 5022
  - seeds 537
  - taxonomy 8178
- ***Phaseolus glabellus,*** taxonomy 8178
- ***Phaseolus lunatus***
  - albumins 538
  - genetic resources 12871
  - *Macrophomina phaseolina* 9393
  - nutritive value 9391
  - phaseolin 12878
  - plant composition 9391
  - varieties, S13 1721
- ***Phaseolus polyanthus***
  - evolution 8177
  - interspecific hybridization 8177-8178
  - taxonomy 8177-8178
- ***Phaseolus vulgaris***
  - air pollution 3963
  - albumins 538
  - amylase inhibitors 543
  - *Apion godmani* 2901
  - arcelin 3964
  - artificial selection 12872
    - bean common mosaic potyvirus 2884
    - cold resistance 7099
    - *Colletotrichum lindemuthianum* 2884
    - habit 5017
    - ideotypes 6160
    - quality 539
    - yield components 2884, 9386
    - yields 5030, 6162
  - bean golden mosaic bigeminivirus 6158
  - bean yellow mosaic potyvirus 9397
  - *Bemisia tabaci* 7105
  - breeding 5016, 5018-5019, 6104, 11738
  - *Callosobruchus chinensis* 543
  - centres of diversity 9384
  - centres of origin 8176
  - chloroplast genetics 8171
    - evolution 12879
    - taxonomy 12879
  - *Colletotrichum lindemuthianum* 541, 2898, 9394
  - crop density 2900, 5034
  - crop mixtures, *Zea mays* 2891
  - cytoplasmic male sterility 5023
  - determinate and indeterminate habit 6162
  - diallel analysis, growth period 4622
  - digestibility 12877
  - diseases 2893, 9395
  - drought resistance 2892, 12882
  - embryo culture 11743
  - *Epilachna varivestis* 5039
  - ethyl methanesulfonate 5038, 8179
  - experimental design 11737
  - fibre 6164
  - flooding 1727
  - French bean crinkle stunt virus 12884
  - fruits 6165, 7101
  - fungicides 9395
  - *Fusarium oxysporum* 2895, 9396
  - *Fusarium solani* 2897
  - gamma radiation 1724, 5017
  - gene expression
    - anthocyanins 2890, 8174
    - binding proteins 6159
    - chitinase 10504
    - *Colletotrichum lindemuthianum* 540, 6159
    - colour 8174
    - cytoplasmic male sterility 5024
    - fruits 8174
    - injuries 11747
    - lipoxygenase 2886
    - NAD(P)H-plastoquinone-oxidoreductase 12465
    - ornithine carbamoyltransferase 5037
    - pathogenesis-related proteins 11747
    - phaseolin 2885, 8172
    - polygalacturonase-inhibiting protein 11747
    - proline 540
    - *Pseudomonas syringae* 5037
    - ribulose-bisphosphate carboxylase 8175
    - stress 5986
  - gene location, polygalacturonase-inhibiting protein 5022
  - gene mapping, *Colletotrichum lindemuthianum* 6167
  - genetic distance, domestication 8176
  - genetic engineering, phaseolin 2885, 13206
  - genetic markers, bean common mosaic potyvirus 11749
  - genetic resources 496, 3964, 6104, 9384-9385, 12871
    - ideotypes 2889
  - genetic transformation
    - ornithine carbamoyltransferase 5037
    - *Pseudomonas syringae* 5037
  - genetic variance
    - leaves 12873
    - plant hairs 12873
  - genetic variation, isoenzymes 9384
  - genetics
    - *Colletotrichum lindemuthianum* 2896

Phaseolus vulgaris *cont.*

- genetics *cont.*
  - colour 1724, 12875
  - flowers 1724, 12875
  - phaseolin 3961
  - *Phoma exigua* 2899
  - photoperiodism 3960
  - polypeptides 3961
  - seeds 11745, 12875
  - yield components 11745
- genotype environment interaction 8180
  - quality 539
- genotype mixtures 9385
- germination 2892, 7102
- germplasm releases
  - *Sclerotinia sclerotiorum* 10510
  - *Xanthomonas campestris* 10510
- growth period 5028
- growth regulators 5025, 7098, 7101
- habit 2891, 6161
  - mathematics 5027
- harvesting 10508
- heat 10509
- heat resistance 7101-7102
- heat sums 496
- height 5025, 7098
- heritability
  - *Phoma exigua* 2899
  - yield components 10507
- heterosis
  - leaves 12873
  - plant hairs 12873
- humidity 8173
- hybrid seed production 9386
- 3-hydroxy-β-ionone 7098
- IAA 7101
- immunology, NAD(P)H-plastoquinone-oxidoreductase 12465
- induced mutations 1069, 5017
  - colour 1724
  - flowers 1724
  - nodulation 8179
  - *Uromyces appendiculatus* 5038
- interspecific hybridization 8177-8178, 11743, 12874
- isoenzymes 3963, 9388
- lectins 4978, 9390
- linkage
  - colour 1724
  - flowers 1724
  - *Rhizobium* 2894
  - *Xanthomonas campestris* 2894
- mechanical damage 5036
- mechanical harvesting 5036
- mitochondrial genetics 11802
  - cytoplasmic male sterility 2887, 5024, 10505, 11744
- molecular genetics
  - phaseolin 8172
  - phenylalanine ammonia-lyase 5734
- mutagens 5038, 8179
- mutations
  - anthocyanins 8174
  - chlorophyll 10506
  - colour 5035, 8174
  - fruits 8174
  - nodulation 5032-5033, 5035
  - seeds 5035
  - senescence 10506
- nitrogen fixation 5032
- nodulation 12880
- nucleotide sequences 8171, 11802
  - chitinase 10504
  - lipoxygenase 2886
- nutritive value 9390, 12877
- oxidoreductases 5023
- ozone 3963
- peroxidases 3963
- phenylalanine ammonia-lyase 8182
- photoperiodism 496
- photosynthesis 5026, 5029, 8173
- plant introduction 10501
- polymorphism 9388
- polyphenols 4977
- precocity 5028
- proteins 542, 2888, 6164
- *Pythium ultimum* 2897
- quality 1726, 6165
- random amplified polymorphic DNA 1763

Phaseolus vulgaris *cont.*

- random amplified polymorphic DNA *cont.*
  - bean common mosaic potyvirus 11749
  - *Colletotrichum lindemuthianum* 12883
  - *Uromyces appendiculatus* 11748
- respiration 5023, 5032-5033
- restriction fragment length polymorphism
  - *Colletotrichum lindemuthianum* 12883
  - cytoplasmic male sterility 11744
  - domestication 8176
  - polygalacturonase-inhibiting protein 5022
  - *Rhizobium* 2894
  - *Xanthomonas campestris* 2894
- *Rhizobium* 8181
- *Rhizoctonia solani* 2897
- ribulose-bisphosphate carboxylase 5026, 5029
- roots 6161, 9389
- salinity 6166, 11746
- *Sclerotinia sclerotiorum* 1729, 2900, 8182
- seasonal growth 5028
- seed aging 536
- seed moisture 5036
- seed testing 2888
- seeds 542, 5036, 6163
  - economics 12876
- sexual reproduction 10509
- soil compaction 12880
- sowing date 7100
- stability 12881
- storage, seeds 536
- tannins 4978
- taxonomy 8178
- temperature 2892
- tissue culture 1725, 3962, 12882
- translocation 5033
- transpiration 8173
- *Uromyces appendiculatus* 1728, 10512
- variety classification 2888, 9388
- variety trials 3958, 5020-5021, 6106, 6155-6157, 9387, 10501-10502, 11740-11742, 12872
- weeds 9398
- wide hybridization 2884, 11739
- *Xanthomonas campestris* 9392, 10511
- yield components 496, 3958, 7100, 12880
- yield correlations 5030, 10507
- yields 5029, 12881
- *Zabrotes subfasciatus* 542-543, 3964, 7104
- varieties 1719
  - AC Harblack 535
  - EMCAPA 405-Goytacazes 8170
  - Fu San Chang Feng 533
  - IAPAR-57 6158
  - ICA Cafetero 1720
  - Long-87-90028 534
  - Mimoso Rasteiro AG-461 1722
  - Norstar 10503
  - Ouro Negro 1718
  - Sári 5018
  - Tuc Rojo-180 1723

Phenolic compounds

- *Avena sativa* 10202
- *Brassica napus,* rape 4220
- *Camellia sinensis* 2045
- *Cocos nucifera,* genetic variation 3232
- *Cynara scolymus* 12991
- *Juglans* 3183
- *Lycopersicon esculentum* 10670
- *Pelargonium* 9846
- *Pennisetum purpureum* 9191
- *Pisum sativum* 5050
- *Rosa* 9846
- *Salix nigricans* 9790
- *Sorghum bicolor* 364
- *Vitis vinifera* 5288

Phenols

- *Gossypium,* genetics 10955
- *Manihot esculenta* 7180
- *Vitis vinifera* 780

Phenylalanine ammonia-lyase

- *Arabidopsis thaliana*
  - gene expression 11227

Phenylalanine ammonia-lyase *cont.*

- *Arabidopsis thaliana cont.*
  - genetic engineering 11227
- *Brassica oleracea,* broccoli 5148
- crops, molecular genetics 5734
- *Nicotiana tabacum*
  - genetic transformation 11227
  - nucleotide sequences 9719
- *Oryza sativa* 2767
  - nucleotide sequences 400
- *Petroselinum crispum,* gene expression 8744, 11108
- *Phaseolus vulgaris* 8182
  - molecular genetics 5734

Phialophora gregata, *Glycine max,* genetics 12865

Phippsia algida

- chloroplast genetics, taxonomy 10411
- restriction fragment length polymorphism, taxonomy 10411

Phleum

- chromosome morphology 4930
- cytotaxonomy 4930
- molecular genetics, taxonomy 12799

Phleum pratense

- artificial selection
  - cold resistance 11619
  - *Fusarium roseum* 11619
  - *Sclerotinia borealis* 11619
  - *Typhula ishikariensis* 11619, 12782
- chlorophyll 12804
- climate 1638
- cold resistance 11278, 11618
- development 12804
- digestibility 8091
- electrical properties 11278
- genotype environment interaction, quality 1644
- germination 12803
- *Monographella nivalis* 7021
- morphology 2813
- nitrate reductase 10407
- persistence 12804
- quality 2813
- sugars 12804
- temperature 8091
- *Typhula ishikariensis* 7020-7021
- variety trials 139, 1638, 11622
- varieties 10392
  - Pievutis 2808
  - Tia 2781
  - Tika 2781

Phlobaphene, *Zea mays,* gene expression 9028

Phloem, *Cucurbita pepo,* nucleotide sequences 5213

Phlox drummondii, genetics, self incompatibility 2180

Phoenix dactylifera

- artificial selection 7307-7308
- cryopreservation 6328
- *Fusarium oxysporum* 4188, 8450
- genetic resources 1217
- insects 1920
- isoenzymes, multivariate analysis 7309
- meiosis 4187
- morphology, multivariate analysis 7309
- mycoplasma-like organisms 3181
- storage, pollen 137, 10817
- tissue culture 1217, 5328, 8450
- variety classification 7309

Phoma *(see also Deuterophoma; Leptosphaeria)*

- *Lupinus albus* 2845

Phoma exigua

- *Phaseolus vulgaris*
  - genetics 2899
  - heritability 2899

Phoma medicaginis, *Pisum sativum* 8201

Phomopsis *(see also Diaporthe)*

- *Glycine max* 8161
- *Juniperus* 2169
- *Malus pumila* 3116

Phomopsis longicolla

- *Glycine max* 9345
  - germplasm releases 3952

Phosphatases, *Brassica alboglabra* 5149

Phosphate

- *Glycine max,* gene expression 10465
- *Nicotiana tabacum*
  - gene expression 10465

Phosphate *cont.*
  Nicotiana tabacum cont.
    genetic engineering 10465
Phosphate translocator
  Nicotiana tabacum
    gene expression 7387
    nucleotide sequences 7387
Phosphates
  Arabidopsis thaliana
    gene expression 3523
    molecular genetics 3523
Phosphatidylcholine desaturase
  Arabidopsis thaliana
    gene expression 5781
    nucleotide sequences 5781
Phosphinothricin acetyltransferase
  Arachis hypogaea
    gene expression 12077
    genetic transformation 12077
  Brassica napus
    rape
      gene expression 8478
      genetic transformation 8478
  Festuca rubra, genetic transformation 8073
  Sorghum bicolor, genetic transformation 4861
  Triticum aestivum, genetic transformation 5899
  Zea mays, genetic transformation 2705
Phosphoenolpyruvate carboxylase
  Arachis hypogaea, gene expression 12466
  evolution 11183
  gene expression 6665, 11183
  Glycine max
    gene expression 12466
    nucleotide sequences 7078
  molecular genetics 8799
  Oryza sativa
    gene expression 12674
    genetic transformation 12674
  Solanum tuberosum, nucleotide sequences 3996
  Sorghum bicolor, gene expression 12466
  Triticum aestivum
    gene location 11311
    restriction fragment length polymorphism 11311
  Zea mays 10255
    gene expression 12466, 12674
    genetic engineering 12674
Phosphofructokinase, *Lolium perenne* 10399
Phosphoglucoisomerase
  Lolium boucheanum, genetic variation 9251
  Lolium multiflorum, genetic variation 9251
  Lolium perenne, genetic variation 9251
Phosphoglucomutase
  Malus pumila 5234
  Musa, genetic variation 788
  Picea orientalis
    genetics 3365
    linkage 3365
  Prunus armeniaca 3132
  Rubus idaeus, genetics 1899
  Rubus neglectus, genetics 1899
Phosphogluconate dehydrogenase
  Fagus sylvatica, genetics 3343
  Lupinus albus, genetic variation 3927
  Malus pumila 5234
  Zea mays, genetics 3763
Phosphogluconate dehydrogenase (decarboxylating)
  Eleusine
    gene dosage 3791
    gene expression 3791
Phosphoglycerate kinase, *Spinacia oleracea,* nucleotide sequences 9523
Phosphoglyceromutase
  Nicotiana tabacum
    gene expression 4265
    nucleotide sequences 4265
  Ricinus communis
    gene expression 4265
    nucleotide sequences 4265
Phospholipids, *Allium* 10638
Phosphoprotein phosphatase
  Arabidopsis thaliana, nucleotide sequences 7630-7631
  Medicago sativa
    gene expression 11659
    nucleotide sequences 11659
  Medicago varia, gene expression 11659
  Zea mays 5962
Phosphoproteins, *Zea mays,* gene expression 7919
Phosphopyruvate hydratase, *Ricinus communis,* nucleotide sequences 12094
Phosphoribosylamine-glycine ligase
  Arabidopsis thaliana
    molecular genetics 10005
    nucleotide sequences 10005
Phosphoric monoester hydrolases
  Pisum sativum
    gene expression 8183
    nucleotide sequences 8183
Phosphorus
  Cocos nucifera 6391, 6398-6400
  Glycine max 2867, 6139
  Holcus lanatus 12807
  Hordeum vulgare 7850
  Manihot esculenta 8288-8289
  Medicago sativa, artificial selection 10428
  Oryza sativa 1589, 10382, 11601
  Pisum sativum 9404
  Solanum tuberosum 6237
  Trifolium repens 4950, 4952, 7056, 7058, 9303
    artificial selection 7055
    genetics 1661
    heritability 7055
  Vigna unguiculata 7144, 9431
  Zea mays 10284, 11493
Photolyases, *Sinapis alba,* molecular genetics 844
Photoperiodism
  Allium cepa 5144
  Arabidopsis thaliana 3522
  Boehmeria nivea 13250
  Cicer arietinum 10532
  Eleusine coracana 6962
  Elymus × Triticum 11357
  Fragaria ananassa 8420
  Gladiolus 12269
  Glycine max 512, 5835, 12847
    epistasis 12843
    genetics 12843-12844
  Glycine soja 512
  Hibiscus cannabinus, genetics 12174
  Hordeum vulgare 161, 11283
  Lablab purpureus 496
  Lens culinaris 5835, 11766, 11768
  Lolium hybridum 7025
  Lolium perenne 7025
  Lycopersicon esculentum, mutations 10664
  Macrotyloma × Lablab, artificial selection 6227
  Nicotiana 4303
  Oryza sativa 418, 428, 2733, 3819, 3823, 3831, 5835, 8019, 9210-9212, 10363
    backcrossing 3825
    genetics 414-415, 2739, 3825, 6037, 11580, 12741
    heterosis 11580
    induced mutations 414
    male sterility 2744
  Pennisetum glaucum, combining ability 6002
  Pharbitis nil, gene expression 8681
  Phaseolus vulgaris 496
    genetics 3960
  Pinus pinaster 8634
  Pisum sativum 496
  Sesbania rostrata, induced mutations 491
  Sinapis alba 2358
    gene expression 8492
    nucleotide sequences 8492
  Solanum stoloniferum 5095
  Solanum tuberosum 609, 5095
  Triticum aestivum 161, 2489, 2492, 3617, 10093, 11283, 11320, 12505
    combining ability 205
    genetics 8875, 10101
    pleiotropy 10101
Photoperiodism *cont.*
  Vicia faba 5835
  Vigna angularis 496
  Vigna mungo 11782
  Vigna radiata 496, 11782
  Vigna umbellata 11782
  Vigna unguiculata 11778
  Zea mays 5972
Photorespiration
  Pisum sativum, molecular genetics 1731
  Triticum aestivum, somaclonal variation 12536
Photosynthesis
  Amaranthus hypochondriacus, gene expression 450
  Arabidopsis thaliana
    gene expression 7650
    induced mutations 4594
    mutations 7650
    nucleotide sequences 7617
    polymorphism 932
  Arachis hypogaea 6425, 7360, 12080-12081, 13159
    genotype environment interaction 6418
  artificial selection 2276
    reviews 7
  Beta vulgaris, sugarbeet 5430
  Bouteloua eriopoda 4932
  Bouteloua gracilis 4932
  Brassica napus, rape, mutations 3213
  Camellia sinensis, clonal variation 13194
  Citrus 9622
  crops 9961, 12464
    genetics 1239
    polyploidy 3542
  Cucumis sativus 11931
  Elaeis guineensis 3223
  evolution 8860
  Festuca arundinacea 1631
  forest trees, ideotypes 8586
  gene expression 3488
  genetic engineering 3490
  Glycine max 10476, 12845
    mutations 11708
  Gossypium 6521, 9752
  Gossypium barbadense 5496
  Gossypium hirsutum 6515, 7413, 9741
  Helianthus annuus 7339
    heterosis 6363
  Helianthus tuberosus 7187
  Hordeum spontaneum 7844, 11393
  Hordeum vulgare 4773, 5912, 6832, 7844, 7858, 9961, 10170, 11393, 12605, 12608
    chloroplast genetics 10172, 11376-11377
    gene expression 2601, 2603, 4762, 10163, 10172, 11376-11377
    gene location 2430
    genetic engineering 2603
    molecular genetics 2430, 2602, 2604
    mutations 2604, 10163, 11377
    nucleocytoplasmic interaction 10163
  Lupinus albus 1664
  Lupinus angustifolius 1664
  Lupinus luteus 1664
  Lycopersicon esculentum 5177
    gene expression 7212
    heterosis 10669
    nucleotide sequences 7212
    polymorphism 932
  Malus pumila 9575
  Manihot esculenta 7176
  Medicago sativa 2828
  Miscanthus 9278
  molecular genetics 8860
  Nicotiana
    gene expression 932
    molecular genetics 932
    polymorphism 932
  Nicotiana plumbaginifolia, genetic transformation 6491, 8310
  Nicotiana sylvestris
    gene expression 9727
    nucleotide sequences 7389
  Nicotiana tabacum 5461, 9728, 13227
    artificial selection 3287, 6488, 9725
    gene expression 1778, 2067, 12147, 12977, 13229

- **Photosynthesis** *cont.*
  - *Nicotiana tabacum cont.*
    - genetic transformation 1778, 2067, 6492, 8310, 8555, 12147, 12977, 13229
    - molecular genetics 6474
    - mutations 2068, 10937, 12148
    - nucleotide sequences 6474, 7389
  - *Oryza eichingeri* 6038
  - *Oryza glaberrima* 8023
  - *Oryza punctata* 6038
  - *Oryza sativa* 2750, 2758, 4898, 6030, 6035, 8023, 9214, 10383-10384
    - chloroplast genetics 11585, 12737
    - combining ability 10367
    - gene expression 6020, 11585, 12737
    - genetic variance 10367
    - heterosis 6034, 10371
  - *Panax pseudoginseng* 6602
  - *Petunia hybrida*
    - gene expression 6586
    - genetic transformation 6586
  - *Phaseolus* 5026
  - *Phaseolus vulgaris* 5026, 5029, 8173
  - *Picea mariana* 5594
  - *Pinus aristata* 5587
  - *Pinus ponderosa* 5584
  - *Pinus sylvestris,* gene expression 11026
  - *Pisum sativum* 1736
    - molecular genetics 2602
    - nucleotide sequences 8185
  - *Populus* 6543
    - somaclonal variation 12189
  - *Populus deltoides* 8605
  - *Populus tremuloides* 5545
  - *Populus trichocarpa* 8600
  - *Prunus domestica* 5247
  - *Prunus persica* 11975
  - *Pseudotsuga menziesii* 5605
  - *Setaria italica* 1490
  - *Solanum tuberosum*
    - gene expression 1778, 11821
    - genetic transformation 7202, 9464, 11821
    - nucleotide sequences 1778
  - *Sorghum bicolor*
    - chloroplast genetics 331, 12471
    - gene expression 331, 12471
    - genetics 11530
  - *Spinacia oleracea*
    - gene expression 8310, 12977
    - genetic engineering 8310, 12977
    - molecular genetics 2602
  - triticale 10213
  - *Triticum aestivum* 1296, 2497, 3642, 4694, 5900, 8892, 11348
    - chromosome substitution 7751
    - gene expression 5868
    - gene location 2430
    - molecular genetics 2430
  - *Triticum durum* 5873
    - chromosome substitution 7751
  - *Triticum kotschyi* 3642
  - *Vigna angularis,* polymorphism 932
  - *Zea mays* 10276
    - chloroplast genetics 331, 11455, 12471
    - gene expression 331, 5962, 12471
    - heritability 344
    - heterosis 10268
    - maternal effects 1423
    - mutations 7930-7931, 10937, 11455, 11462
    - paternal effects 1423
    - polymorphism 932
- ***Phthorimaea operculella***
  - *Solanum tuberosum* 4010-4011, 9479
    - genetic transformation 3013
- ***Phyllanthus***
  - embryo culture 13109
  - evolution 13109
  - interspecific hybridization 13109
  - taxonomy 13109
- ***Phyllanthus emblica***
  - breeding 4192
  - minerals 4194
  - plant composition 4194
  - sexual reproduction 4192
- ***Phyllanthus fraternus,*** tissue culture 13113
- ***Phyllocnistis citrella***
  - *Citrus* 5323
- ***Phyllocnistis citrella*** *cont.*
  - *Citrus sinensis* 5323
  - *Citrus × Poncirus* 5323
  - *Murraya koenigii* 5323
- ***Phyllostachys aurea***
  - protoplasts 11122
  - tissue culture 11122
- ***Phyllosticta*** (*see also Ascochyta; Mycosphaerella)*
- ***Phyllotreta cruciferae***
  - *Brassica,* genomes 1960
  - *Brassica campestris*
    - turnip rape 7332
      - artificial selection 7331
  - *Brassica juncea* 7332
  - *Brassica napus*
    - rape 7332
      - genetics 3212
  - *Sinapis alba* 7332
- **Phylogeny** (*see* Evolution)
- ***Physalospora*** (*see also Botryosphaeria; Glomerella)*
- **Physiological leaf spot,** *Triticum aestivum* 2568
- **Physiology** 5712-5713, 5727
  - books 3452
  - crops, breeding 2275
  - genetic engineering 3490
  - genetics, conferences 11129
  - *Glycine max,* reviews 10480
  - *Oryza sativa* 420
    - reviews 10369
  - *Pennisetum pedicellatum* 10324
  - *Pisum sativum* 6188
  - *Saccharum* 8516
  - *Triticum aestivum,* genetic variance 3624
  - *Vigna radiata* 1768
- **Phytoalexins**
  - *Arachis hypogaea* 13169
    - molecular genetics 5740
  - gene expression 2308, 2350
  - molecular genetics 2350
  - *Nicotiana tabacum*
    - gene expression 6499
    - genetic transformation 6499
  - *Pinus sylvestris,* molecular genetics 5740
  - *Vitis vinifera,* genetic engineering 6499
- **Phytochrome**
  - *Adiantum capillus-veneris,* nucleotide sequences 11095
  - *Anemia phyllitidis*
    - molecular genetics 11096
    - polymerase chain reaction 11096
  - *Arabidopsis thaliana*
    - gene expression 72, 3285, 4595, 5771, 7639, 10022, 10025, 11200
    - genetic engineering 4595
    - genetic transformation 3285, 4595, 7639, 10022
    - genetics 10013
    - multiple alleles 10013
    - mutations 72, 80, 2357, 2360, 5771, 6677, 7639, 7645, 10023-10025, 11220
    - nucleotide sequences 11200
  - *Avena,* gene expression 11398
  - *Avena sativa*
    - gene expression 3285, 5930, 6966, 7864, 10022, 10201
    - genetic engineering 3285, 10201
    - molecular genetics 5930-5931
  - *Brassica campestris,* mutations 80
  - *Cucumis sativus,* mutations 11935
  - *Dryopteris filix-mas*
    - molecular genetics 11096
    - polymerase chain reaction 11096
  - gene expression 1136
  - genetic transformation 11194
  - genetics 1136
  - *Lycopersicon esculentum*
    - gene expression 9544
    - mutations 4061, 10664-10665, 13005
  - molecular genetics 3489
  - mutations 11194
  - *Nicotiana plumbaginifolia,* induced mutations 7396
  - *Nicotiana tabacum*
    - gene expression 3285, 11398, 13205, 13224
    - genetic engineering 13205
- **Phytochrome** *cont.*
  - *Nicotiana tabacum cont.*
    - genetic transformation 3285, 11398, 13205, 13224
    - nucleotide sequences 5449
  - *Oryza sativa*
    - gene expression 5930, 6966, 13224
    - genetic transformation 5930
    - molecular genetics 5930
  - *Pisum sativum*
    - gene expression 546
    - mutations 9403, 12894
  - *Sorghum bicolor*
    - gene dosage 12692
    - mutations 12692
  - *Triticum aestivum*
    - gene location 11311
    - restriction fragment length polymorphism 11311
- **Phytoene desaturase**
  - *Arabidopsis thaliana,* nucleotide sequences 7618
  - *Lycopersicon esculentum,* nucleotide sequences 7213
  - *Nicotiana tabacum*
    - gene expression 4315
    - genetic transformation 4315
- **Phytoene synthase**
  - *Arabidopsis thaliana,* nucleotide sequences 10003
  - *Zea mays,* genetics 9043
- **Phytohaemagglutinin,** *Arabidopsis thaliana,* genetic transformation 79
- ***Phytolacca americana***
  - gene expression
    - cucumber mosaic cucumovirus 4480
    - potato X potexvirus 4480
    - potato Y potyvirus 4480
  - genetic engineering
    - cucumber mosaic cucumovirus 4480
    - potato X potexvirus 4480
    - potato Y potyvirus 4480
  - genetic resources 8767
- ***Phytophthora***
  - *Citrus* 5322
  - *Malus pumila* 3121, 10733
- ***Phytophthora cactorum***
  - *Malus pumila* 4127
    - *in vitro* selection 3122
- ***Phytophthora cambivora***
  - *Castanea crenata* 9652
  - *Castanea sativa* 9652
- ***Phytophthora capsici***
  - *Capsicum* 3085, 8360-8361, 10696
  - *Capsicum annuum* 706, 4096
    - epistasis 8359
    - genetics 709-710
  - *Capsicum baccatum* 706
  - *Capsicum chacoense* 706
  - *Capsicum chinense* 706, 4097
  - *Capsicum frutescens* 706
    - genetics 709
  - *Lycopersicon esculentum* 8348
  - *Macadamia* 3185
- ***Phytophthora cinnamomi***
  - *Castanea crenata* 9652
  - *Castanea sativa* 9652
  - *Eucalyptus marginata* 5534
    - heritability 13267
- ***Phytophthora citrophthora***
  - *Citrus* 12016
  - *Citrus reticulata* 12016
  - *Citrus sinensis* 12016
  - *Poncirus trifoliata* 12016
- ***Phytophthora clandestina,*** *Trifolium subterraneum* 12818
- ***Phytophthora cryptogea,*** *Gerbera jamesonii* 7519
- ***Phytophthora fragariae***
  - *Fragaria ananassa* 1069, 3152
    - *in vitro* selection 4152
- ***Phytophthora heveae,*** *Cocos nucifera* 6407
- ***Phytophthora infestans***
  - *Nicotiana tabacum*
    - gene expression 7404
    - molecular genetics 7404
  - *Solanum* 2990-2992, 2997
    - tuberous species 7168
  - *Solanum demissum* 2990
    - genetics 8277
  - *Solanum iopetalum* 2990

Phytophthora infestans cont.
- *Solanum stoloniferum,* genetics 8277
- *Solanum tuberosum* 1798, 2990-2993, 2996-2997, 5114, 6242, 7165, 7167-7168, 8274, 8278-8279, 11839
  - combining ability 8276
  - gene expression 5838
  - gene location 7166
  - gene mapping 11834
  - genetic transformation 2994
  - genetics 7166, 8277
  - *in vitro* selection 2995
  - restriction fragment length polymorphism 7166, 11834

Phytophthora megasperma
- *Arabidopsis thaliana,* mutations 1165
- *Glycine max*
  - gene expression 525, 2872
  - genetics 1715
  - germplasm releases 1714
  - molecular genetics 525
- *Petroselinum crispum*
  - gene expression 3435, 5838
  - molecular genetics 3435, 5674

Phytophthora melonis, Cucumis melo 716

Phytophthora nicotianae
- *Lycopersicon esculentum* 6279
- *Nicotiana tabacum* 3297, 3299, 10940-10941
  - artificial selection 8563, 9732
  - gene expression 3289, 5464
  - genetic engineering 5464
  - genetic transformation 936, 3289

Phytophthora palmivora
- *Theobroma cacao* 9716
  - genetics 9715

Phytophthora sojae
- *Glycine max* 9373, 11730, 12867-12868
  - genetics 9374

Phytophthora vignae, Vigna unguiculata 2937, 9434

Picea
- chemotaxonomy 13317
- chloroplast genetics, evolution 4377
- chromosome morphology 2142
- evolution 2142
- taxonomy 13317
- tissue culture 7438

Picea abies
- abscisic acid 5596
- air pollution 7488
- artificial selection 3363
  - mathematics 4370
- breeding 6546, 12218
- cell culture 7487, 11028
- clones, mathematics 4370
- cold resistance 5596
- competitive ability 6546
- cryopreservation 2129, 11028-11029
- development 2143
  - mathematics 4372-4373
- dormancy 5596
- drought resistance 7488
- embryo culture 5595
- forest decline 12220
- gene expression 5596
  - cinnamyl-alcohol dehydrogenase 986
  - ribulose-bisphosphate carboxylase 8640
  - ubiquitin 8640
- gene mapping 12219
- genetic variation, isoenzymes 12220
- genetics
  - enzymes 3364
  - isoenzymes 3364
- grafting 13315
- *Gremmeniella abietina* 4368
- growth period 2143, 5595
- growth regulators 5596
- habit, mathematics 4373
- height, mathematics 4372
- linkage
  - enzymes 3364
  - isoenzymes 3364
- molecular genetics, cinnamyl-alcohol dehydrogenase 986
- nucleotide sequences, alcohol dehydrogenase 8639
- ozone 7488
- protoplasts 7487

Picea abies cont.
- random amplified polymorphic DNA 12219
- reciprocal effects
  - altitude 13313
  - development 13313
- RNA 8640
- seed production 12218
- sister chromatid exchange 13310
- storage, pollen 2129
- tissue culture 4375-4376, 5597, 13315
- wood properties 13316

Picea ajanensis, taxonomy 11031

Picea asperata
- chromosome morphology 2142
- evolution 2142

Picea engelmannii
- cryopreservation 11030
- gene expression
  - albumins 7485
  - legumin 7485
  - vicilin 7485
- heritability
  - development 2144
  - specific gravity 2144
- restriction fragment length polymorphism, interspecific hybridization 13309

Picea glauca
- artificial selection 5593
- cryopreservation 11030
- gene expression
  - albumins 7485
  - legumin 7485
  - vicilin 7485
- genetic transformation 4371, 4559, 8641
- genetic variation, isoenzymes 5593
- heritability
  - development 2144, 4374
  - height 4374
  - specific gravity 2144
- *in vitro* culture 13314
- outcrossing, statistics 13311
- pollen germination 9821
- restriction fragment length polymorphism, interspecific hybridization 13309
- *Zeiraphera canadensis* 2146

Picea jezoensis, genetic variation, isoenzymes 8642

Picea mariana
- abscisic acid 7489
- drought resistance 5598, 7489
- genotype environment interaction 5598
- growth regulators 7489
- photosynthesis 5594
- yield correlations 5594

Picea orientalis
- genetic variation
  - enzymes 3365
  - isoenzymes 3365
- genetics
  - enzymes 3365
  - isoenzymes 3365
  - malate dehydrogenase 3365
  - phosphoglucomutase 3365
- linkage
  - enzymes 3365
  - isoenzymes 3365
  - malate dehydrogenase 3365
  - phosphoglucomutase 3365

Picea pungens, storage, pollen 137

Picea sitchensis
- clonal variation, development 13312
- germination 7486
- haploidy 2145
- ovule culture 2145
- *Pissodes strobi* 7490
- restriction fragment length polymorphism, interspecific hybridization 13309
- seed aging 7486

Pieris brassicae, Brassica oleracea, cauliflowers 644

Pieris rapae, Brassica oleracea, kale 11867

Pigeon pea sterility mosaic virus, *Cajanus cajan* 3978

Pigments, *Vitis vinifera* 781

Pilocarpus microphyllus
- genetic resources 12284
- storage, seeds 12284

Pinellia ternata, tissue culture 7545, 12289

Pinus
- anatomy 5581
- chloroplast genetics, evolution 9819
- chromosome morphology 5581
- clonal selection 13253
- cytotaxonomy 3359
- DNA 6547
- genetic variation 969
- hybrid varieties 9810
- interspecific hybridization 5581, 13258
- leaves 5581
- monoterpenes 3359
- multivariate analysis, leaves 5580
- restriction fragment length polymorphism 5581
- tissue culture 7438
- varieties, Kanto Rin'iku Ichigou 9810

Pinus aristata
- development 5587
- habit 5587
- leaves 5587
- photosynthesis 5587

Pinus attenuata
- chloroplast genetics 13293
- cold resistance 6552
- interspecific hybridization 6552
- restriction fragment length polymorphism 13293

Pinus banksiana
- chloroplast genetics 9813
- climate 5591
- cones 8633
- *Endocronartium harknessii* 3360
- genetic transformation, *Agrobacterium rhizogenes* 983
- gibberellins 8633
- growth regulators 8633
- interspecific hybridization 5581
- nitrogen 5591
- nutrients 5591
- paternal effects, chloroplasts 9813
- pollen 8633
- restriction fragment length polymorphism 9813
- rooting capacity 983
- temperature 5591
- tissue culture 983

Pinus brutia
- provenance trials 2137, 8630
- resins 2137

Pinus caribaea
- cell culture 13303
- chloroplast genetics, taxonomy 13307
- embryo culture 13303
- glycoproteins 13303
- interspecific hybridization 8751
- mycorrhizas 11021
- *Pisolithus tinctorius* 11021

Pinus celakovskiorum
- interspecific hybridization 5580
- multivariate analysis, leaves 5580

Pinus chiapensis
- cones 5585
- leaves 5585
- seeds 5585

Pinus contorta
- chloroplast genetics 9813
- *Endocronartium harknessii* 2141, 9770
- flowering 12214
- genetic variation, isoenzymes 6549
- *Gremmeniella abietina* 4368
- interspecific hybridization 5581
- nucleotide sequences, chlorophyll *a/b* binding protein 7481
- paternal effects, chloroplasts 9813
- population genetics 6549
- restriction fragment length polymorphism 9813
- sex 12214
- tissue culture 9816

Pinus densiflora
- gene location, RNA 4362
- linkage, isoenzymes 5583

Pinus edulis
- genetic variation
  - glycerate dehydrogenase 11025
  - isoenzymes 11025
- stress 11025

Pinus eldarica, provenance trials 8630

Pinus elliottii
- artificial selection, yield components 4367
- breeding 7478
  - reports 4511-4512
- chemotaxonomy 7482
- chloroplast genetics, taxonomy 13307
- *Cronartium fusiforme* 8751
  - reports 4512
- gene mapping, *Cronartium fusiforme* 8632
- genetic variance, wood properties 9818
- heritability, yield components 4367
- *in vitro* selection, *Gibberella fujikuroi* 3362
- interspecific hybridization 8751
- nitrogen 4367
- nutrients 4367
- population genetics 9812
- provenance trials 8751
- random amplified polymorphic DNA, *Cronartium fusiforme* 8632
- resins 7482
- seedlings 8635
- seeds 8635
- wood properties 13304
- yield correlations 4367

Pinus flexilis
- alkanes 2136
- chemotaxonomy 2136
- heterozygosity 1181
- monoterpenes 2136

Pinus gerardiana
- genetic variance
  - cones 3357
  - seeds 3357
- heritability
  - cones 3357
  - seeds 3357

Pinus halepensis, provenance trials 8630

Pinus kesiya, seed production 10989

Pinus lambertiana, *Cronartium ribicola* 11027

Pinus leucodermis
- genetics, isoenzymes 4365
- linkage, isoenzymes 4365

Pinus luchuensis, molecular genetics, taxonomy 8629

Pinus massoniana, interspecific hybridization 9810

Pinus maximinoi
- breeding 9809
- provenance trials 13291
- pulping 13306

Pinus merkusii, seed production 10989

Pinus monticola
- *Cronartium ribicola* 3361
- genetic transformation, *Agrobacterium rhizogenes* 983
- outcrossing 2135
- rooting capacity 983
- tissue culture 983

Pinus mugo
- interspecific hybridization 5580
- multivariate analysis, leaves 5580

Pinus muricata
- chloroplast genetics 13293
- restriction fragment length polymorphism 13293

Pinus nigra
- clonal variation
  - cones 2138
  - seed production 2138
- cryopreservation 2129
- *Gremmeniella abietina* 4368
- heritability
  - cones 2138
  - seed production 2138
- lead 6548
- pollen germination 6548
- soil toxicity 6548
- storage, pollen 2129
- stress 6548
- tissue culture 5589
- toxic substances 6548

Pinus oocarpa
- chloroplast genetics, taxonomy 13307
- heritability, yield components 985

Pinus palustris, embryo culture 5588

Pinus patula
- artificial selection 13292

Pinus patula *cont.*
- genotype environment interaction 13292
- heritability
  - brittleness 7483
  - wind 7483
  - yield components 13302
- provenance trials 7476-7477
- tissue culture 5590

Pinus pinaster
- artificial selection 11020
- breeding 5577, 6546, 7437
- competitive ability 6546
- drought resistance 5586
- gene mapping 12213
- genetic markers 7437
- genetic variation, proteins 12215
- genetics, globulins 12216
- genomes 12213
- linkage 12212
- photoperiodism 8634
- provenance trials 5578, 12215
- recombination 12212
- seedlings 8634
- temperature 8634
- water balance 5586
- wood properties 11023

Pinus pinea
- cryopreservation 2129
- storage, pollen 2129
- tissue culture 6550

Pinus ponderosa
- drought resistance 5521
- leaves 5584
- molecular genetics, oleosins 13294
- *Neodiprion fulviceps* 5592
- nucleotide sequences, oleosins 13294
- photosynthesis 5584
- self pollination 13296
- storage
  - pollen 137
  - seeds 13296
- transpiration 5584

Pinus pumila
- genetic distance, isoenzymes 4363
- genetic variation, isoenzymes 4363

Pinus radiata
- artificial selection, lignin 12217
- breeding 12207
  - computer simulation 2110
- chloroplast genetics 13293
- cold resistance 6552
- gibberellins 148
- growth regulators 148
- heritability, wood properties 8636
- interspecific hybridization 6552
- *Mycosphaerella pini* 7484
- pollination 9814
- restriction fragment length polymorphism 13293
- wood properties 8637, 11024

Pinus sibirica
- gene flow, isoenzymes 4364
- genetic distance, isoenzymes 4364
- genetic variation, isoenzymes 4364

Pinus strobus
- air pollution 5522
- cryopreservation 2129
- ozone 5522
- storage, pollen 2129
- toxic substances 5522

Pinus sylvestris
- air pollution 2139
- anthocyanidins 2132
- artificial selection
  - computer simulation 5579
  - development 3358
  - statistics 5579
- breeding 3355, 6546, 12206
- chloroplast genetics 2130
- chromosome aberrations 3354
- competitive ability 6546
- cones 9815
- cryopreservation 2129
- cytology 2133
- development 3355-3356, 13299
- DNA 13295
- female fertility 5582
- fertility 5582
- flavonols 2132
- gene expression
  - glutathione reductase 6553

Pinus sylvestris *cont.*
- gene expression *cont.*
  - nitrate reductase 12209
  - photosynthesis 11026
  - stress 6553
  - superoxide dismutase 6553
- genetic variation 9811
  - isoenzymes 984, 11022, 13300-13301
- genetics
  - habit 13297
  - isoenzymes 13297
  - manoyl oxide acid 4366
- geographical races 3355-3356
- germination 13299
- *Gremmeniella abietina* 4368
- heterozygosity, air pollution 2140
- inbreeding depression 2134
- induced mutations 3354
- interspecific hybridization 2132, 5580
- latitude 2139
- lead 6548
- leaves 9815
- maternal effects
  - cold resistance 13308
  - height 13298
- meiosis 2133
- molecular genetics
  - nucleolus organizer 2131
  - phytoalexins 5740
- multivariate analysis, leaves 5580
- nucleotide sequences, nitrate reductase 12209
- pollen germination 6548
- population genetics 13300-13301
- quality 6551
- radiation 3354
- restriction fragment length polymorphism, nucleolus organizer 7480
- seasonal growth 3355-3356
- seeds 13299
- soil toxicity 6548
- storage, pollen 2129
- stress 6548
- toxic substances 6548

Pinus taeda
- artificial selection, wood properties 13305
- breeding, reports 4511
- cold resistance 9820
- combining ability, *Cronartium fusiforme* 4369
- *Cronartium fusiforme* 8751
- gene mapping 12210-12211
- genetic variance, statistics 9807
- genetics
  - air pollution 8638
  - ozone 8638
- heritability, *Cronartium fusiforme* 4369
- outcrossing, statistics 9807
- population genetics, statistics 9807
- provenance trials 8631, 8751
- restriction fragment length polymorphism 12210-12211
- wood properties 13304

Pinus thunbergii
- chloroplast genetics, transfer RNA 12208
- gene expression, chlorophyll *a/b* binding protein 7479
- gene location, RNA 4362
- interspecific hybridization 9810
- nucleotide sequences
  - chlorophyll *a/b* binding protein 7479
  - transfer RNA 12208

Pinus uncinata
- anthocyanidins 2132
- cryopreservation 2129
- flavonols 2132
- interspecific hybridization 2132
- storage, pollen 2129

Pinus wallichiana, embryo culture 9817

Piper betle
- leaves 2233
- quality 13393
- tissue culture 7550

Piper longum, tissue culture 13391

Piper nigrum
- essential oils 13392
- *Meloidogyne incognita* 9931
- polyploidy 9925
- vigour 3432
- varieties, Pournami 9931

- ***Piperia colemanii,*** taxonomy 1028
- ***Piperia elegans,*** taxonomy 1028
- ***Piresiella,*** taxonomy 6616
- ***Pisolithus tinctorius,*** *Pinus caribaea* 11021
- ***Pissodes strobi,*** *Picea sitchensis* 7490
- ***Pistacia atlantica,*** tissue culture 9657
- ***Pistacia integerrima,*** tissue culture 9657
- ***Pistacia vera***
  - cell culture 1926
  - tissue culture 9657
- ***Pisum abyssinicum,*** genetics, trypsin inhibitors 5052
- ***Pisum fulvum***
  - embryology 3968
  - fungi 8200
  - interspecific hybridization 3968
  - polyploidy 3968
- ***Pisum humile,*** fungi 8200
- ***Pisum sativum***
  - abscisic acid 11760
  - acid phosphatase 2908
  - amylose 11757
  - *Aphanomyces euteiches* 7118, 9405
  - artificial selection 12891
    - *Aphanomyces euteiches* 2914
    - cold resistance 6194
    - *Erysiphe pisi* 6194
    - yield components 8190
  - *Ascochyta* 5058
  - *Ascochyta pisi* 8202, 12901
  - aspartate aminotransferase 2908
  - backcrossing, amylose 12897
  - biotechnology 6171
  - boron 10525
  - *Botrytis* 5058
  - breeding 1688, 5040-5041
  - broad bean stain comovirus 2916
  - cell division
    - abscisic acid 8191
    - growth regulators 8191
  - chloroplast genetics 3966, 6169
    - hydroxymethylbilane synthase 2904
    - proteins 12889
  - chromosome morphology 6108
  - cold resistance 6110, 6195
  - *Colletotrichum truncatum* 9407
  - crop density 7117
  - cytosol aminopeptidase 1738
  - development 11759
  - diclofop 458
  - diethyl sulfate 11752
  - digestibility 10523, 12896
  - diseases 6197, 8139
    - reviews 8140
  - *Ditylenchus dipsaci* 8141
  - DNA 498, 11238
  - drought resistance 6111, 6195
  - embryo culture
    - abscisic acid 8191
    - growth regulators 8191
  - embryology 3968
  - esterases 1738, 2908, 2917
  - ethyl methanesulfonate 5056-5057, 7116, 8192, 8195, 10519, 11752, 12898
  - ethyleneimine 10519
  - evolution, development 12895
  - forage 12893
  - fungi 5058, 6114, 8200
  - *Fusarium* 5058
  - *Fusarium oxysporum* 2915
  - gamma radiation 1733, 10519, 11761
  - gene banks 6168
  - gene expression 3966, 11270
    - abscisic acid 5046
    - albumins 2907, 4199
    - *Ascochyta pisi* 2913
    - aspartate-ammonia ligase 5047, 6172
    - aspartate carbamoyltransferase 10518
    - carbonate dehydratase 10521
    - chitinase 2913
    - ferredoxin 13210
    - glutamate-ammonia ligase 5047
    - glutathione reductase 12899
    - glycerol-3-phosphate acyltransferase 8187
    - glycine decarboxylase 10520
    - growth regulators 5045
    - GTP-binding proteins 7107, 10517
    - histones 6182
    - IAA 5045
    - lectins 5044

- ***Pisum sativum*** *cont.*
  - gene expression *cont.*
    - light 546, 13210
    - lipoxygenase 6183
    - naringenin-chalcone synthase 12899
    - nodulation 521, 558
    - nodulins 557, 3967
    - nutritive value 8133
    - phosphoric monoester hydrolases 8183
    - phytochrome 546
    - proteins 8133
    - *Rhizobium* 557
    - ribulose-bisphosphate carboxylase 6170, 10521
    - roots 6182
    - superoxide dismutase 6192, 12899
    - *Verticillium* 8273
    - vicilin 6107
  - gene location
    - clover yellow vein potyvirus 8203
    - pea seed-borne mosaic potyvirus 8203
    - trypsin inhibitors 5054
    - white lupin mosaic potyvirus 8203
  - gene mapping 8199
    - *Erysiphe pisi* 12902
  - genetic distance 553
    - yield components 8189
  - genetic engineering
    - albumins 2907
    - aspartate-ammonia ligase 6172
    - ferredoxin 13210
    - glutamate-ammonia ligase 6174
    - glycerol-3-phosphate acyltransferase 8187
    - light 13210
    - superoxide dismutase 6192
    - *Verticillium* 8273
    - vicilin 6107
  - genetic resources 134, 496, 6105, 8131
  - genetic transformation 1730, 3965, 5043, 6189, 10515
    - albumins 4199
    - nutritive value 8133
    - proteins 8133
    - tissue culture 8186
  - genetic variance, yield components 7113
  - genetic variation, histones 1735
  - genetics 6175
    - albumins 556
    - amylose 12897
    - clover yellow vein potyvirus 8203
    - *Erysiphe polygoni* 10526
    - flowering 1238
    - fruits 2909, 7111
    - habit 10519
    - history 2267
    - leaves 1734, 1737-1738, 10519
    - legumin 556
    - male sterility 1733, 11752
    - nitrogen fixation 5056
    - nodulation 5056, 11761
      - reviews 6191
    - pea seed-borne mosaic potyvirus 8203, 10527
    - plant embryos 10527
    - *Pseudomonas syringae* 12900
    - reviews 6176
    - *Rhizobium,* reviews 6191
    - seeds 6179, 7111, 10527
    - starch 5052
    - tendrils 1737
    - trypsin inhibitors 5052
    - vicilin 556
    - waxes 10519
    - white lupin mosaic potyvirus 8203
  - genotype environment interaction
    - yield components 6186
    - yields 11762
  - geography 1735
  - gibberellins 10519
  - *Glomus* 11753
  - growth period 10513-10514
  - growth regulators 10519
  - habit 12892
  - harvest index 7110
  - heat resistance 6110
  - heat sums 496
  - height 550, 1736
  - herbicides 458

- ***Pisum sativum*** *cont.*
  - heritability, yield components 6186
  - *Heterodera* 8141
  - *Heterodera goettingiana* 2917
  - heterosis
    - nitrogen fixation 1741
    - yield components 1739, 8189-8190
    - yields 1741, 11238
  - hybridization, history 2267
  - IAA 550
  - immunology 497
    - fructose-bisphosphatase 8194
  - *in vitro* selection
    - diflufenican 7120
    - *Fusarium solani* 9406
    - glyphosate 7120
    - herbicides 7120
    - metsulfuron-methyl 7120
  - induced mutations 6108
    - albumins 556
    - determinate and indeterminate habit 8192
    - habit 10519
    - IAA 8192
    - iron 8195
    - leaves 10519
    - legumin 556
    - male sterility 1733, 11752
    - nitrogen fixation 5056-5057
    - nodulation 5056, 7116, 11761, 12898
    - seeds 7109
    - source sink relations 8195
    - starch 7109
    - translocation 8195
    - vicilin 556
    - waxes 10519
  - insects 6117, 8142
  - interspecific hybridization 3968
  - isoenzymes 1738, 2908
  - leafless cultivars 1736
  - leaves 11756
  - lectins 5053
  - light 1736
  - linkage
    - *Erysiphe pisi* 12902
    - lipoxygenase 6183
    - trypsin inhibitors 5054
  - mechanical damage 4971
  - *Meloidogyne* 8141
  - mitochondrial genetics 6169
    - adenosinetriphosphatase 2905
  - molecular genetics
    - *Ascochyta pisi* 2913
    - aspartate carbamoyltransferase 10518
    - aspartate transcarbamoylase 547
    - carbonate dehydratase 545
    - chitinase 2913
    - chloroplasts 11754
    - diseases 6196
    - DNA binding proteins 548
    - glutathione reductase 6173
    - glycine decarboxylase 1731
    - heat shock proteins 6193
    - lectins 5044, 11750
    - lipoxygenase 6183
    - nodulins 8184
    - photorespiration 1731
    - photosynthesis 2602
    - proteins, reviews 6180
    - ribulose-bisphosphate carboxylase 9402
    - seeds, reviews 6180
    - starch, reviews 6180
    - stress 11751
  - molybdenum cofactor 2911
  - multivariate analysis 552-553
    - yield components 8197
  - mutagens 5056-5057, 7116, 8192, 8195, 10519, 11752, 12898
  - mutations
    - abscisic acid 6178, 8193
    - chitinase 10522
    - development 11755, 12894
    - flowering 12895
      - reviews 6181
    - fruits 7111
    - gibberellins 549, 6184, 11755, 11758, 12894
    - *Glomus* 10522
    - *Glomus mosseae* 551

Pisum sativum *cont.*
- mutations *cont.*
  - growth regulators 549, 6178, 6184, 8193
  - height 6184-6185, 7112, 11758
  - internodes 6185, 9403
  - light 9403
  - morphology, reviews 6181
  - mycorrhizas 2910
  - nodulation 558, 7115, 8198, 10522
  - nodulins 8198
  - phytochrome 9403, 12894
  - proteins 2910
  - *Rhizobium* 7115
  - seeds 6190, 7111
  - tropisms 147
  - water balance 8193
- mycorrhizas 8196, 11753
- natural selection, histones 1735
- Nematoda 6116
- nuclei 11238
- nucleolus 497, 1732, 6177, 12890
- nucleotide sequences
  - abscisic acid 5046
  - adenosinetriphosphatase 7108
  - chalcone isomerase 10516
  - chlorophyll *a/b* binding protein 8188
  - chloroplasts 11754
  - fructose-bisphosphatase 8194
  - GTP-binding proteins 7107, 10517
  - lectins 5042, 11750
  - nodulins 3967
  - nucleoside-diphosphate kinase 9401
  - phosphoric monoester hydrolases 8183
  - photosynthesis 8185
  - proteins 12889
- nutrients 9404
- nutritive value 1691, 5053, 10523
- oligosaccharides 4978
- *Ophiomyia phaseoli* 11763
- outcrossing 1734
- pea enation mosaic enamovirus 12903
- pea seed-borne mosaic potyvirus 12903-12904
- *Peronospora viciae* 7119, 9408
- peroxidases 2917
- phenolic compounds 5050
- *Phoma medicaginis* 8201
- phosphorus 9404
- photoperiodism 496
- photosynthesis 1736
- physiology 6188
- polymerase chain reaction, hydroxymethylbilane synthase 2904
- polyploidy 3968
- proteins 555, 1691, 2903, 2911, 7070, 7117
- quality 555, 1740
- random amplified polymorphic DNA 8199
  - *Erysiphe pisi* 12902
- restriction fragment length polymorphism 8199
  - *Erysiphe pisi* 12902
- salinity 6111
- *Sclerotinia* 5058
- *Sclerotinia sclerotiorum* 2912
- seed moisture 4971
- seed production 7110
- seed testing 2782, 4971
- seedlings 2906
- seeds 1740, 2906, 4971, 6178, 11759
- shikimate dehydrogenase 2908
- sodium 559
- soil pH 559
- soil toxicity 10525
- source sink relations 11760
- stability
  - yield components 7114, 10524, 12891
  - yields 11762
- starch 11757
- stems 550
- stress 9320
- tannins 4978, 5050-5051, 5053
- tissue culture 554, 1730, 2390, 4972, 5048, 6189
- toxic substances 559
- translocation 7110
- trypsin inhibitors 4973-4974, 4978, 5049-5050, 5053, 5055

Pisum sativum *cont.*
- variety classification 1738, 2782, 2908
- variety trials 139, 2782, 2903, 6106, 9399, 10513-10514, 12885-12886
- viruses 6115
- water balance 12892
- yield components 496, 552, 7117
- yield correlations 3969, 6187-6188
- varieties
  - AC Tamor 544
  - Aktsioner 2412
  - Apex 12887
  - Cascadia 9400
  - Kiblukai 2902
  - Lyulinetskiĭ Korotkostebel'nyĭ 2412
  - Mattar Ageta 6 7106
  - Omskiĭ Neosypayushchiĭsya 2413
  - Renata 2903
  - Sprut 2413
  - Tasya 2413
  - Trounce 12888

Pithecellobium, chromosome number 9799

Plant collections (*see* Gene banks)

Plant composition
- *Actinidia deliciosa* 9610, 13090
- *Albizia lebbeck* 9804
- artificial selection 12348
- *Avena sativa* 5935
  - genotype environment interaction 1249
- *Brassica napus,* rape 12049-12050
- *Brassica oleracea,* broccoli 5152
- *Carya illinoinensis* 13117
- cereals, reports 163
- *Cichorium endivia* 10654
- *Coffea* 4284
- *Dactylis glomerata* 8065
- *Dioscorea* 7182
- fodder plants 6060
- *Galega orientalis* 10446
- genetic transformation 12348
- *Glycine max* 2863-2864, 7088, 9352, 9359, 12860
- *Gossypium hirsutum* 5495, 5511, 8580
- *Hippophae rhamnoides* 3169
- *Hordeum vulgare* 12608
  - genotype environment interaction 1249
  - mutations 12616
- *Humulus lupulus* 2240
- *Ipomoea batatas* 8291, 10627
- *Juglans regia* 8456
- *Leucaena* 9318
- *Lycopersicon cheesmanii* 11888
- *Lycopersicon esculentum* 5180, 6266, 11888
- *Lycopersicon pennellii* 11888
- *Lycopersicon peruvianum* 11888
- *Malus pumila* 1892
- *Medicago varia* 6080
- *Nicotiana tabacum* 7395
- *Olea europaea* 5398
- *Pennisetum glaucum* 6004
- *Perilla* 1998
- *Phaseolus lunatus* 9391
- *Phyllanthus emblica* 4194
- *Prunus,* plums 8402
- *Punica granatum* 6330
- *Saccharum* 6442, 12106
- *Saccharum officinarum* 13180
- *Salix acutifolia* 12192
- *Salix daphnoides* 12192
- *Secale cereale,* genotype environment interaction 1249
- *Solanum phureja,* mathematics 8252
- *Solanum stenotomum,* mathematics 8252
- *Solanum tuberosum,* somaclonal variation 10580
- *Sorghum bicolor* 3774
- *Trifolium* 6060
- *Triticum aestivum,* genotype environment interaction 1249
- *Vaccinium angustifolium* 11994
- *Vaccinium corymbosum* 11994
- vegetables 8866
- *Vigna unguiculata* 10554
- *Vitis* 4160
- *Vitis vinifera* 13088
- *Zea mays* 11472
  - genetics 12681

Plant disorders
- *Citrus* 13101
- *Cucumis sativus* 7241, 11939
- *Cucurbita* 11925
- *Cucurbita pepo* 11925
- *Oryza sativa* 11611
- *Prunus,* plums 10745
- *Raphanus sativus* 8296
- *Solanum tuberosum*
  - artificial selection 4009
  - induced mutations 4009
- *Triticum aestivum* 2568
  - genetics 11327
- *Vitis vinifera* 5298
- *Zea mays,* mutations 7966-7967

Plant embryos
- *Arabidopsis thaliana*
  - gene expression 10019
  - genetic markers 7633
  - genetic transformation 3524
  - genetics 1163
  - induced mutations 3524
  - molecular genetics 1162
  - mutations 75, 1162-1163, 3550, 10019, 12418
- *Beta vulgaris,* sugarbeet 12115
- *Betula pendula*
  - gene expression 971
  - molecular genetics 971
- *Brassica napus,* rape, gene expression 11274
- *Brassica oleracea,* broccoli 4034
- *Citrus* 6324, 13098
- *Citrus reticulata* 13098
- *Citrus sinensis* 13098
- *Cucumis sativus* 10706
- gene expression 3555, 10040
- *Glycine max* 8150
  - gene expression 11274
- *Helianthus annuus*
  - gene expression 12057
  - nucleotide sequences 12057
- *Hordeum vulgare*
  - gene expression 11378
  - nucleotide sequences 11378
- *in vitro* culture 3555
- *Lens culinaris* 3971
- *Lens ervoides* 3971
- *Lens orientalis* 3971
- molecular genetics 4633
- *Nicotiana tabacum,* gene expression 11274
- *Oryza meyeriana* 9222
- *Oryza officinalis* 9222
- *Oryza rufipogon* 9222
- *Oryza sativa* 9222
  - gene expression 8003
  - genetics 12736
  - heritability 1558
  - induced mutations 12736
  - multiple alleles 12736
  - nucleotide sequences 8003
- *Pisum sativum,* genetics 10527
- *Poncirus trifoliata* 13098
- *Prunus persica* 11974
- *Triticum aestivum,* gene expression 3593
- *Triticum durum* 7670
- *Vicia faba* 7670
- *Zea mays*
  - gene expression 5960, 7917, 7919, 7935, 11453
  - heterosis 1431
  - mutations 7928, 11453, 11460
  - non-disjunction 11450

Plant extracts, *Rosa hybrida* 11051

Plant glands, *Gossypium hirsutum,* genetic markers 10954

Plant hairs
- *Aegilops* × *Triticum*
  - genetics 10096
  - inhibitor genes 10096
- *Arabidopsis thaliana*
  - gene expression 3510, 12415, 12419
  - genetics 8817
  - molecular genetics 8816
  - mutations 4592, 8816-8817, 12415, 12419
  - nucleotide sequences 4592
  - polymerase chain reaction 12415
- *Elymus trachycaulus,* genetics 10406
- *Erythrina* 9852

- **Plant hairs** *cont.*
  - *Festuca* 10402
  - *Festuca hyperborea* 10402
  - *Glycine max*
    - genetics 12850
    - linkage 12852
  - *Gossypium* 5494
  - *Gossypium hirsutum* 5494
    - genetics 2093
  - *Medicago lupulina* 2835
  - *Medicago sativa,* germplasm releases 9291
  - *Mentha piperita* 7555
  - *Ophrys* 9898
  - *Phaseolus* 7103
  - *Phaseolus vulgaris*
    - genetic variance 12873
    - heterosis 12873
  - *Populus* 5543
  - *Solanum,* tuberous species 10610
  - *Solanum berthaultii* 1799
  - *Solanum tuberosum* 1799, 7171
  - *Tradescantia,* induced mutations 12256
  - *Triticum aestivum*
    - genetics 10096
    - inhibitor genes 10096
- **Plant introduction** 4, 4532-4533, 4537
  - *Abelmoschus esculentus* 1882
  - *Bactris gasipaes* 12992
  - *Bromus tectorum* 8089
  - Cactaceae 7532
  - *Carya illinoinensis* 8459-8460
  - cereals 3569
  - *Chenopodium quinoa* 4907
  - *Citrus* 8444
  - *Coffea arabica* 4283, 8534-8536
  - crops 138, 2288, 8863, 11487
  - Ericaceae 4538
  - forest trees 2109
  - *Fragaria ananassa* 11995
  - fruit crops 4166, 7245
  - *Glycine max* 11695
  - *Gossypium* 939, 12158
  - *Gossypium barbadense* 13239
  - *Gossypium hirsutum* 12164, 13239
  - *Helianthus tuberosus* 7184
  - *Juglans regia* 4132
  - *Lavandula angustifolia* 11111
  - *Lotus corniculatus* 1666-1667
  - *Lotus uliginosus* 1666
  - *Mangifera* 13102
  - *Mangifera indica* 13102
  - *Medicago sativa,* restriction fragment length polymorphism 6076
  - nut crops 4117
  - ornamental plants 3467
  - ornamental succulent plants 7532
  - ornamental woody plants 2154
  - *Oryza sativa* 3792, 10337, 12705
  - *Phaseolus vulgaris* 10501
  - *Prunus* 4132
  - *Prunus armeniaca* 10742
  - *Prunus persica* 757, 759
  - *Ribes nigrum* 10766
  - *Salacia chinensis* 9633
  - *Sesamum indicum* 870
  - *Solanum tuberosum,* history 5085
  - temperate fruits 4117
  - *Theobroma cacao* 6471
  - trees 2109
  - *Trifolium* 6085-6086
  - *Triticum aestivum* 3587
  - tropical fruits 3467
  - vegetables 4644
  - *Vigna unguiculata* 6215
  - *Zea mays* 1457, 11417, 11482, 11485, 11487, 11492
    - history 9143
- ***Plantago lanceolata***
  - chromosome pairing 4474
  - polyploidy 4474
- ***Plantago ovata***
  - gamma radiation 1040
  - induced mutations, yield components 1040
  - tissue culture 7546
- **Planting date**
  - *Brassica oleracea,* cabbages 5150
  - *Cucurbita pepo* 10703
  - *Saccharum officinarum* 8515
  - *Solanum tuberosum* 11831
- **Planting depth,** *Solanum tuberosum* 5105
- **Plants**
  - evolution, books 2268
  - gene mapping, reviews 9974
  - molecular genetics, reviews 7604
- **Plasmids,** *Zea luxurians,* mitochondrial genetics 4814
- ***Plasmodiophora brassicae***
  - *Brassica,* Chinese cabbages 12975
  - *Brassica campestris* 4225
  - *Brassica napus*
    - rape 4225
      - molecular genetics 6353
  - *Brassica oleracea*
    - broccoli 10643
      - restriction fragment length polymorphism 3047
    - cabbages 4225, 10643
    - cauliflowers, restriction fragment length polymorphism 3047
    - kale 10643
      - genetic variance 9519
      - heritability 9519
- ***Plasmopara halstedii,*** *Helianthus annuus* 8499-8500, 10866
- ***Plasmopara lactucae-radicis,*** *Lactuca sativa,* gene mapping 8313
- **Plastids**
  - *Medicago sativa,* genetics 1656
  - *Oenothera* 1005
- **Plastocyanins**
  - *Arabidopsis thaliana*
    - gene expression 3520
    - genetic engineering 3520
  - *Nicotiana tabacum,* genetic transformation 3520
  - *Solanum tuberosum,* genetic transformation 7202
  - *Spinacea oleracea*
    - genetic engineering 7202
    - mutations 7202
  - *Spinacia oleracea*
    - gene expression 7201
    - molecular genetics 7201
- ***Platanthera calderoniae,*** taxonomy 8723
- ***Platanthera zothecina,*** taxonomy 1027
- ***Platanus kerrii,*** chromosome morphology 5561
- ***Platanus orientalis,*** chromosome morphology 5561
- ***Platycodon grandiflorus***
  - artificial selection
    - colour 11056
    - flowers 11056
  - tissue culture 7545, 12289
- ***Platynota idaeusalis,*** *Malus pumila* 10734
- ***Plectranthus,*** taxonomy 4466
- ***Pleiochaeta setosa,*** *Lupinus albus* 2845
- **Pleiotropy** 4608
  - *Glycine max*
    - colour 1701
    - seeds 1701
  - *Hordeum*
    - milling quality 5849
    - salinity 5849
  - *Hordeum vulgare*
    - quality 5849
    - salinity 5849
  - *Lycopersicon esculentum,* male sterility 3057
  - *Nicotiana plumbaginifolia*
    - cytokinins 8554
    - development 8554
    - source sink relations 8554
  - *Oryza sativa, Pseudomonas fuscovaginae* 1604
  - *Triticum*
    - milling quality 5849
    - salinity 5849
  - *Triticum aestivum*
    - α-amylase 12527
    - awns 12529
    - colour 12534
    - dormancy 12534
    - gibberellic acid 12527
    - glutenins 12533
    - growth regulators 12527
    - height 1291, 8901, 10101, 12527, 12530, 12533
    - photoperiodism 10101
    - *Puccinia graminis* 255
- **Pleiotropy** *cont.*
  - *Triticum aestivum cont.*
    - quality 5849
    - salinity 5849
    - seeds 12534
    - source sink relations 1291
    - yield components 8901, 10101, 12533
  - *Triticum durum,* glumes 4702
  - *Zea mays*
    - abscisic acid 5974
    - anthocyanins 5974
    - glumes 9095
    - growth regulators 5974
    - height 9095
    - leaves 9150
    - *Ostrinia nubilalis* 9150
    - *Puccinia sorghi* 9150
    - seeds 5974
    - vivipary 5974
- ***Pleuropogon***
  - nomenclature 7044
  - taxonomy 7044
- ***Pleurothallis discophylla,*** taxonomy 4457
- ***Pleurothallis erythrogramma,*** taxonomy 4457
- ***Pleurothallis phoenicoptera,*** taxonomy 11092
- ***Pleurothallis steinbuchiae,*** taxonomy 11092
- ***Pleurotus***
  - polymorphism, isoenzymes 4502
  - taxonomy 3438
  - variety classification 4502
- ***Pleurotus cornucopiae***
  - polymorphism, isoenzymes 1067
  - restriction fragment length polymorphism 13403
- ***Pleurotus ostreatus***
  - genetic transformation 13404
  - genetics, cellulose 4501
  - induced mutations, cellulose 4501
  - *N*-methyl-*N*-nitro-*N*-nitrosoguanidine 4501
  - mutagens 4501
- ***Pleurotus pulmonarius***
  - artificial selection, spores 4490
  - varieties, 3300-INRA-Somycel 4490
- ***Pleurotus salmoneostramineus***
  - mutations, amino acids 6620
  - protoplasts 6620
- ***Plodia interpunctella,*** *Juglans regia* 8458
- **Plum pox potyvirus**
  - *Nicotiana benthamiana,* genetic transformation 3310, 5467, 13058
  - *Nicotiana clevelandii,* genetic transformation 3310, 5467, 13058
  - *Nicotiana tabacum*
    - gene expression 3302, 10947
    - genetic transformation 3302, 3310, 10947
  - *Prunus* 7266
    - plums 7273, 10746
  - *Prunus armeniaca,* genetic transformation 5467, 13058
  - *Prunus domestica,* genetic transformation 13058
- ***Plutella xylostella,*** *Brassica oleracea,* kale 11867
- ***Poa***
  - evolution 4913
  - taxonomy 4913, 9248
- ***Poa bulbosa***
  - chromosome pairing 3871
  - polyploidy 3871
- ***Poa chushualana,*** taxonomy 12783
- ***Poa labradorica,*** taxonomy 9246
- ***Poa nemoralis***
  - chromosome pairing 3871
  - polyploidy 3871
- ***Poa pratensis***
  - apomixis 9247
  - chromosome pairing 3871
  - dormancy 6064
  - germination 6064
  - polyploidy 3871
  - random amplified polymorphic DNA, apomixis 8064
  - storage, seeds 6064
  - variety classification 11625
  - variety trials 139, 13350
  - varieties
    - Danga 2789

Poa pratensis *cont.*
  varieties *cont.*
    Gausa 2789
    Lanka 2789
    NuBlue 11053
    NuStar 11054
Poa supina
  chromosome pairing 3871
  polyploidy 3871
Poa × Dupontia, intergeneric hybridization 9246
Poaceae, chloroplast genetics, taxonomy 12781
Podocarpus nakaii, molecular genetics, taxonomy 8629
Podophyllum peltatum
  pollination 1038
  self compatibility 1038
Podosphaera leucotricha, *Malus pumila* 3114, 6296, 10727-10728
Pogostemon cablin
  chemotaxonomy 8746
  essential oils 8746
Polemonium viscosum
  growth period 8684
  reproduction 8684
Polianthes tuberosa
  chimaeras 11079
  gamma radiation 11079
Pollen
  Abies pinsapo, storage 13318
  Acacia auriculiformis, storage 11002
  Acacia iteaphylla, storage 11002
  Acacia karroo, storage 11002
  Acacia mangium, storage 11002
  Acer 9800
  actinidia deliciosa 9605
  Actinidia deliciosa 10797
  Allium, storage 633
  Allium victorialis, storage 10635
  angiosperms, books 2269
  Anigozanthos manglesii, storage 9861
  Arabidopsis thaliana 12413
    gene expression 4593, 8330
    genetic engineering 4593
    genetic transformation 7635, 8330
    genetics 7635
    induced mutations 11215
    mutations 68, 7635
  Astragalus adsurgens 8128
  Banksia 9801
  Brassica campestris, sarson 5377
  Brassica carinata 5377
  Brassica juncea 5377
  Brassica napus
    rape 1215, 8475
      gene expression 1943, 5354, 8477
      genetic engineering 8477
      nucleotide sequences 5354
  Brassica oleracea 1818
    broccoli 5148
  Camellia 4392
  Camellia sinensis 7383
    storage 3274
  Carica papaya, storage 4169
  Carya illinoinensis 9650
    storage 137
  Citrus 799
    storage 4169
  Citrus limon, storage 800
  Cocos nucifera, storage 1974
  Coffea 6467
  conifers 7474
  Corylus avellana, storage 137
  Crocus biflorus 8705
  Cucumis melo 4105
  Cucurbita pepo 6287
  Cypripedium fasciculatum 13377
  Eucalyptus calophylla 9783
  evolution 5803
  Gasteria verrucosa 2214
  gene expression 1208, 3544
  Geranium 11062
  Glycine max 8151
  Helianthus annuus, genetics 4232
  Hordeum vulgare 11386
  in vitro selection, reviews 117
  Labiatae 2165
  Lagerstroemia 11039
  Larix leptolepis 8647
  Lilium, storage 11084
Pollen *cont.*
  Lilium longiflorum 2211, 12271
    gene expression 12270
    nucleotide sequences 12270
  Linum grandiflorum 2101
  Liriodendron chinense 11010
  Liriodendron tulipifera 11008, 11010
  Lolium perenne 3876
  Lolium rigidum, gene expression 1629
  Lycopersicon
    artificial selection 11894
    in vitro selection 11894
  Lycopersicon esculentum
    artificial selection 11894
    gene expression 8330, 13001
    genetic engineering 8330
    genetic transformation 13001
    in vitro selection 11894
  Lysimachia 6575
  Mangifera indica, storage 4169
  Medicago rugosa 9283
  Medicago sativa 9283
  Medicago scutellata 9283
  Momordica charantia, storage 11940
  Momordica dioica, storage 11940
  Narcissus papyraceus, molecular genetics 8706
  Nicotiana 2062
  Nicotiana alata, gene expression 4301
  Nicotiana knightiana, nucleocytoplasmic interaction 13215
  Nicotiana raimondii, nucleocytoplasmic interaction 13215
  Nicotiana rustica 1215
  Nicotiana sylvestris 2065
  Nicotiana tabacum 1215, 2064, 2072, 4299
    cytoplasmic inheritance 13219
    gene expression 2061, 4593, 5834, 8330, 9721
    genetic transformation 4593, 8330, 8477
    molecular genetics 2061
    nucleocytoplasmic interaction 13215
  Olea europaea 5395
  Oryza sativa
    dominance 411
    heritability 6974
    heterosis 6974
  Panax pseudoginseng
    cryopreservation 5667
    storage 5667
  Panax quinquefolius
    cryopreservation 5667
    storage 5667
  Pelargonium zonale, cytoplasmic inheritance 12232
  Persea americana 1918, 9629
  Petunia, genetic transformation 1230
  Petunia inflata
    gene expression 11077, 12262
    nucleotide sequences 11077, 12262
  Phoenix dactylifera, storage 137, 10817
  Picea abies, storage 2129
  Picea pungens, storage 137
  Pinus banksiana 8633
  Pinus nigra, storage 2129
  Pinus pinea, storage 2129
  Pinus ponderosa, storage 137
  Pinus strobus, storage 2129
  Pinus sylvestris, storage 2129
  Pinus uncinata, storage 2129
  Primula 4420
  Prunus dulcis 1922
  Prunus persica 11973
  Prunus salicina, storage 8400
  Rondeletia 6566
  Rosa hybrida, mutations 13346
  Saccharum officinarum, storage 877
  Saccharum spontaneum, storage 877
  Sesbania sesban, storage 3932
  sexual reproduction 1205
  Sideritis 9921
  Silene pratensis 2188
  Sinapis alba
    gene expression 9676
    molecular genetics 9676
  Solanum, tuberous species 2964
  Solanum tuberosum 2964
  Sorghum bicolor 6926
    storage 12691
Pollen *cont.*
  stress 1216
  Theobroma cacao 10924
  Tradescantia paludosa
    gene expression 2176, 12247
    genetic transformation 2176
    nucleotide sequences 12247
  Tripsacum dactyloides, storage 1471
  Tripsacum lanceolatum, storage 1471
  Tripsacum × Zea 3732
  Triticum aestivum 1290
    genetic transformation 1230
    natural selection 12503
  Typha latifolia, storage 137
  Verticordia, storage 9837
  Vigna vexillata 8226-8227
  Viola diversifolia 8679
  Vitis vinifera, storage 4169
  woody plants, storage 8765
  Zea mays 323, 1416, 1434, 2677, 11447, 11451, 12687
    gene expression 3743, 5834, 11430
    genetics 1463
    in vitro selection 12686
    nucleotide sequences 3714, 11430
    storage 137, 7914, 9007, 10219
    transposable elements 3726
  Zingiber 6612
Pollen competition 117, 1206, 1214, 2387
  Brassica juncea 1944
  Cruciferae 4635
  Eichhornia paniculata 4468
  Erythronium grandiflorum 4444
  Hibiscus moscheutos 2185
  Hordeum vulgare 2607
  Lycopersicon esculentum 1236
  Medicago sativa 1236
    artificial selection 11661
  Oryza sativa 1544
  Pennisetum glaucum 1505
  Prunus persica 1898
  Raphanus sativus 1810, 1944
  Silene latifolia, genetic markers 2181
  Vigna unguiculata 3979
  Zea mays 1236, 9071
Pollen culture (*see* Anther culture)
Pollen germination 3546
  Abies alba 13319
  Allium victorialis 10635
  Arabidopsis thaliana, mutations 3516
  Betula papyrifera 9771
  Brassica napus, rape 1945
  Brassica × Sinapis 828
  Capsicum 13024
  Capsicum frutescens 8321
  Carya aquatica 1924
  Carya cordiformis 1924
  Carya illinoinensis 1924
    temperature 9649
  Carya tomentosa 1924
  Citrus 13097
  Cocos nucifera 6387
  Eucalyptus tereticornis 9775
  Gasteria verrucosa 2213
  Glycine 509
  Juglans nigra 1923
  Juglans regia 1923
  Lilium longiflorum 8709, 9888
  Litchi chinensis 12018
  Lycopersicon esculentum 8321
  Mimulus guttatus 8692
  Nicotiana 8551
  Nicotiana tabacum 2063, 4302, 6486
    gene expression 12140
  Oryza × Porteresia 2731
  Petunia hybrida
    gene expression 12265
    genetic transformation 12265
    mutations 12265
  Picea glauca 9821
  Pinus nigra 6548
  Pinus sylvestris 6548
  Prunus 741
    plums 3136
  Pyrus communis 11952
  Raphanus sativus 1810, 10629
  Sesbania sesban 3932
  Solanum, tuberous species 9461
  Solanum melongena 8321
  Sorghum bicolor 12691
  Triticum aestivum 5867

Pollen germination *cont.*
  Viola diversifolia 2187, 8679
  Zea mays 1416, 1465
    gene expression 4824
    gene mapping 9071
    restriction fragment length polymorphism 9071
Pollination 4634, 6703, 11244
(*see also* Selective fertilization)
  Acacia auriculiformis 11002
  Acacia iteaphylla 11002
  Acacia karroo 11002
  Acacia mangium 11002
  Actinidia deliciosa 5304, 9606-9608
  Aerides odoratum 8710
  Allium cepa 5141
  Anacardium occidentale 13098
  Anadenanthera falcata 13285
  angiosperms, reviews 8851
  Annona muricata 12022
  Apios americana 5138
  Averrhoa carambola 12021
  Banksia 9801
  Beta vulgaris, sugarbeet 5427
  Betula glandulosa 5523
  books 11132
  Brassica alboglabra 6343
  Brassica campestris 6343
  Brassica juncea 8474
  Brassica napus 8474
    rape 6343, 8478
  Brassica oleracea 1818
    kale 6343
  Brassica × Sinapis 828
  Camellia chrysantha 11037
  Camellia japonica 11037
  Canarium album 6329
  Capsicum 4090
  Capsicum annuum 11898
  Clianthus formosus 13337
  Corylus 4198
  Corylus avellana 9653
  Cucumis sativus 11930
  Cucurbita pepo 10702
  Decodon verticillatus 9908
  Dendrobium aphyllum 8710
  Desmodium affine 7066
  Desmodium triarticulatum 7066
  Desmodium uncinatum 7066
  Disa atricapilla 9893
  Disa bivalvata 9893
  Disa ferruginea 11090
  Elaeis guineensis 9684
  Erianthus arundinaceus 6439
  Erianthus × Saccharum 6439
  Erica 5618
  Erythronium albidum 4443
  Erythronium americanum 4443
  Erythronium grandiflorum 4444
  Eucalyptus 8852
  fruit crops 4119
  Glycine max 3944
  Gnetum gnemon 5801
  Gossypium 10967
  Gossypium hirsutum 10970
  Grevillea barklyana 7503, 9843
  Helianthus annuus 7336
  Helianthus petiolaris 7336
  Hordeum vulgare, mutations 7842
  Juglans regia 10828
  Labiatae 5673
  Lens culinaris 12905
  Lilium longiflorum 2209, 8709
  Linum grandiflorum 2101
  Macadamia integrifolia 7317
  Malus 11946
  Malus pumila 5228, 10721, 11946
  mathematics 12449
  Medicago sativa, artificial selection 6077-6078, 8101
  Myrtaceae 8852
  Neolitsea dealbata 11009
  Nicotiana tabacum, gene expression 4300
  nut crops 4119
  Orchidaceae 7527
  Pelargonium dolomiticum 2184
  Pelargonium tricolor 2183
  Petunia hybrida 5650
    gene expression 6583
  Phaius tankervilleae 8710
  Phalaenopsis, gene expression 3421
  Pinus radiata 9814
  Podophyllum peltatum 1038
  Populus alba 5539
  Populus nigra 5539
  Prunus armeniaca 11960
  Prunus avium 7276, 10749
  Prunus dulcis 1922
  Prunus mahaleb 7275
  Pseudotsuga menziesii 5604
  Pyrus communis 10736
  Pyrus pyrifolia 10735
  Rhododendron aureum 8660
  Saccharum 6439
  Santalum album 9937
  Sesbania goetzei 10445
  Sesbania keniensis 10445
  Sesbania sesban 3932, 10445
  Silene latifolia 8678
  Sorghum bicolor 1476, 11521
  Spathoglottis plicata 8710
  subtropical fruits 4170
  techniques 6706
  Terminalia 5562
  Theobroma cacao 4286
  Triticum aestivum 4693, 11317
  tropical fruits 4170
  Vaccinium ashei 13075
  Vaccinium corymbosum 13075
  Vicia faba 5001
  Vigna umbellata 3985
  Viola cazorlensis 4421
  Vochysia tucanorum 13285
  Xylopia aromatica 13285
  Yucca elata 3373
  Zea mays 9072, 9141, 11447
  Ziziphus mauritiana 10824
Pollution
  Bothriochloa ischaemum 10418
  Chrysopogon gryllus 10418
  Deschampsia cespitosa, natural selection 11653
Polyalthia hypoleuca**,** sexual reproduction 8617
Polyamines
  Nicotiana tabacum
    gene expression 8542
    genetic transformation 8542
  Oryza sativa 9209
  Triticum aestivum, chromosome substitution 3643
Polyembryony (*see also* Twinning)
  Brassica oleracea, kale 6251
  Brassica pekinensis 6251
  Coffea canephora 10918
  Mangifera indica, artificial selection 13103
  Solanum, tuberous species 1782
  Terminalia arjuna 5563
Polyethylene glycol 2391
Polygalacturonase
  Actinidia deliciosa, nucleotide sequences 6312
  Brassica napus
    rape
      gene expression 5354
      nucleotide sequences 5354
  Lycopersicon esculentum
    gene expression 672, 11887, 13011
      reviews 9541
    genetic engineering 666, 7226, 13011
    genetic transformation 666, 11887
      reviews 9541
    molecular genetics 672
  Malus pumila, molecular genetics 10723
  Nicotiana tabacum
    gene expression 9721
    nucleotide sequences 9721
  Persea americana, nucleotide sequences 5326
  Prunus persica
    gene expression 9589, 10758
    molecular genetics 10758
    nucleotide sequences 10758
    polymerase chain reaction 9589
  Zea mays
    gene expression 2673
    molecular genetics 308
    nucleotide sequences 2673
Polygalacturonase-inhibiting protein
  Phaseolus coccineus
    gene location 5022
Polygalacturonase-inhibiting protein *cont.*
  Phaseolus coccineus cont.
    restriction fragment length polymorphism 5022
  Phaseolus vulgaris
    gene expression 11747
    gene location 5022
    restriction fragment length polymorphism 5022
Polygalacturonase inhibitor, *Lycopersicon esculentum,* nucleotide sequences 12996
Polyhaploidy (*see* Haploidy)
Polymerase chain reaction 1129, 1137, 2345, 4557, 4578, 7609-7610, 9991, 11193
  Actinidia 9603
  Aegilops 7824
  Anemia phyllitidis, phytochrome 11096
  Arabidopsis thaliana
    dihydrodipicolinate synthase 12187
    plant hairs 12415
  Astragalus, evolution 3937
  Avena sativa 12635
  Brassica nigra 13123
  Brassica oleracea, cabbages, self incompatibility 10641
  Brassica pekinensis, self incompatibility 10641
  cereals, variety classification 12472
  Citrullus lanatus 9535
  Dryopteris filix-mas, phytochrome 11096
  Ginkgo biloba
    proteins 13323
    seeds 13323
  Gossypium herbaceum 7408, 10657
  Gossypium hirsutum 7408, 10657
  Gossypium laxum 7408
  Helianthus annuus, transfer RNA 12058
  Hordeum spontaneum 2581
  Hordeum vulgare 4795, 6824
  Lycopersicon 10657
  Lycopersicon esculentum 9535
    Meloidogyne 7234
    transposable elements 7210
  Lycopersicon pennellii, transposable elements 7210
  Medicago 1653
  Melilotus officinalis 1653
  Musa 787
  Oryza 12725
  Oryza sativa 1525, 8005
  Petunia hybrida, alcohol dehydrogenase 1014
  Phaseolus, leghaemoglobin 3959
  Pisum sativum, hydroxymethylbilane synthase 2904
  Prunus persica
    fruits 9589
    polygalacturonase 9589
    ripening 9589
  Raphanus sativus, cytoplasmic male sterility 8295
  reviews 9989
  Secale 11406
  Secale cereale 4795, 11406
    secalins 6867
    self incompatibility 7872
  Solanum chacoense
    glycoproteins 11815
    self incompatibility 11815
  Solanum melongena 9556
  Solanum tuberosum 4795
  Spinacia oleracea 12976
    proteins 9524
  techniques 1139, 3485, 6663, 8798, 8801, 9989
  triticale, secalins 6867
  Triticum 6744
  Triticum aestivum 3589, 7824
    glutenins 1277, 8883, 12548
    quality 12548
    secalins 6867
  Triticum dicoccoides
    gliadin 7728
    glutenins 7728
  Vicia faba
    chromosomes 8165
    legumin 7096
    techniques 8165
  Vigna unguiculata, ferritin 8217

Polymerase chain reaction *cont.*
- *Zea mays* 317, 3709
  - archaeology 11436
  - cytoplasm 6888
  - DNA 7613
  - endosperm 9139
  - seeds 7613

Polymnia sonchifolia
- tissue culture 4024, 5139, 10633
- vegetative propagation 5139

Polymorphism
- *Acer saccharum,* isoenzymes 7382
- *Aegilops peregrina,* esterases 6815
- *Agaricus,* isoenzymes 4502
- *Agaricus bisporus,* isoenzymes 1067
- *Agrostis,* isoenzymes 9271
- *Allium fistulosum,* isoenzymes 12967
- *Annona cherimola,* isoenzymes 8453
- *Arabidopsis thaliana,* photosynthesis 932
- *Arachis pintoi,* isoenzymes 4248
- *Avena sterilis,* isoenzymes 5932
- *Capsicum,* isoenzymes 702
- *Capsicum annuum*
  - isocitrate dehydrogenase 703
  - isoenzymes 703
- cereals, enzyme inhibitors 11284
- *Cichorium intybus,* isoenzymes 6260
- *Convallaria majalis,* isoenzymes 4447
- *Cypripedium calceolus,* isoenzymes 4455
- evolution 8829
- *Glycine max,* isoenzymes 11698
- *Glycine soja,* isoenzymes 11698
- *Helianthus,* helianthinin 7342
- *Helianthus annuus,* isoenzymes 8497
- *Hordeum spontaneum,* isoenzymes 7840
- *Hordeum vulgare,* hordein 12601
- *Lolium rigidum,* glucose-6-phosphate isomerase 11629
- *Lycopersicon,* proteins 10656
- *Lycopersicon esculentum,* photosynthesis 932
- *Malus floribunda,* isoenzymes 1891
- *Malus pumila,* isoenzymes 1891
- *Nicotiana,* photosynthesis 932
- nucleotide sequences 8794
- *Oryza minuta,* isoenzymes 6033
- *Oryza sativa*
  - DNA 10354
  - isoenzymes 6033
- *Phalaenopsis,* isoenzymes 9894
- *Pharbitis purpurea*
  - colour 12254
  - flowers 12254
- *Phaseolus vulgaris* 9388
- *Pleurotus,* isoenzymes 4502
- *Pleurotus cornucopiae,* isoenzymes 1067
- *Primula veris,* isoenzymes 1000
- *Pseudotsuga menziesii,* isoenzymes 9825
- *Quercus macrocarpa,* isoenzymes 9784
- *Rubus idaeus,* isoenzymes 9590
- *Sesamum indicum,* isoenzymes 13174
- *Taxus,* isoenzymes 12227
- *Triticum,* alcohol dehydrogenase 8899
- *Triticum aestivum,* gliadin 2507, 7773
- *Triticum durum,* gliadin 7773
- *Vigna angularis,* photosynthesis 932
- *Zea mays* 1405
  - photosynthesis 932

Polypeptides
- *Phaseolus vulgaris,* genetics 3961
- *Vicia faba,* genetics 9382
- *Vitis rotundifolia* 9598
- *Vitis vinifera* 9598

Polyphenols
- *Cocos nucifera,* multivariate analysis 6386
- grain legumes 4977
- *Phaseolus vulgaris* 4977

Polyploidy 112, 1190, 1806, 12441
- *Agropyron cristatum* 10403
- *Andropogon gerardii* 468
- angiosperms 7677
- *Arabidopsis thaliana* 12413
  - DNA hybridization 1159
- *Arabis pumila* 1009
- *Arabis stellulata* 1009
- *Arachis* 1979
- *Asparagus* 4048
- *Asparagus officinalis* 658
- *Aster ageratoides* 5631
- *Aster lanceolatus* 1004

Polyploidy *cont.*
- *Beta vulgaris,* sugarbeet 896, 2030, 3268
- *Betula pendula* 12183
- *Boehmeria nivea* 2107, 8581
- *Brassica* 1956
- *Bromus inermis* 466
- *Camellia sinensis* 5438, 13195
- *Chamomilla recutita* 13386
- *Citrullus lanatus* 4109, 5210
- *Citrus* 1913, 13096
- *Citrus aurantiifolia* 798
- *Citrus sinensis* 804
- *Coffea* 5442
- *Coleus forskohlii* 13387
- crops 11240
  - photosynthesis 3542
- *Cucumis melo* 714, 4106
  - somaclonal variation 1857
- *Dendrobium* 8712, 13376
- *Fagopyrum esculentum* 1621, 2779
- *Festuca* 1632
- *Festuca pratensis* 2785, 11636
- *Festuca* × *Lolium* 2793
- *Fragaria* 1906
- *Galtonia candicans* 13369
- *Gladiolus* 1021
- *Glycine max* 8150
- *Glycine tomentella* 12837
- *Hordeum vulgare* 2598, 4758
- *Hordeum* × *Triticum,* quality 8869
- *Hyacinthus* 9883
- *Ipomoea* 4019
- *Lapeirousia laxa* 12268
- *Larix decidua* 5603
- *Lolium multiflorum* 10396
- *Lolium perenne* 2785, 10396
- *Lonicera* 12006
- *Lycopersicon esculentum,* restriction fragment length polymorphism 13000
- *Manihot esculenta,* mutations 12949
- *Medicago sativa* 9282, 11660
- *Milium montianum* 467
- *Miscanthus* × *Saccharum* 2008
- molecular genetics 113
- *Morus alba* 6315, 9611
- *Morus atropurpurea* 6315
- *Morus indica* 9611
- *Musa* 6321, 8438, 13091
- *Myosotis* 3392
- *Narcissus* 9883
- *Oryza sativa* 431, 3817, 12732
- *Panicum* 9183
- *Panicum infestum* 367
- *Panicum maximum* 367, 9184
- *Panicum trichocladum* 367
- *Parthenium argentatum* 12180
- *Paspalum distichum* 1640
- *Petunia* 4438
- *Piper nigrum* 9925
- *Pisum fulvum* 3968
- *Pisum sativum* 3968
- *Plantago lanceolata* 4474
- *Poa bulbosa* 3871
- *Poa nemoralis* 3871
- *Poa pratensis* 3871
- *Poa supina* 3871
- *Psathyrostachys juncea* 9265
  - seedlings 8078
  - tillering 8078
- *Rosa hybrida* 5624
- *Ruta graveolens* 2225
- *Scilla autumnalis* 7524
- *Secale* × *Triticum* 299
- *Sedum* 9905
- *Sinapis alba* 828
- Solanaceae 1234
- *Solanum commersonii* 610
- *Solanum nigrum* 4475
- *Solanum tuberosum* 5093, 6231
- *Sorghum versicolor* 11520
- statistics 2379
- *Stenotaphrum secundatum* 3907
- *Stevia rebaudiana* 5437
- *Themeda triandra* 1641
- *Trichosanthes cucumerina* 1865
- *Trifolium pratense* 1660, 10435, 10438
- *Tripsacum dactyloides* 12688
- triticale 299, 8990
- *Triticum aestivum* 4691, 11333
- *Tulipa* 9883
- *Vaccinium* 3144

Polyploidy *cont.*
- *Vaccinium angustifolium* 3145
- *Vitis vinifera* 5284, 13085
- *Xanthosoma sagittifolium* 11858
- *Zea mays* 321, 323, 1416
  - somaclonal variation 322
- *Zingiber officinale* 9924

Polysaccharides
- *Lycopersicon esculentum, in vitro* selection 8342
- *Zea mays* 4834

Polysomaty (*see* Mixoploidy)

Polysomics (*see* Aneuploidy)

Polyubiquitin
- *Zea mays*
  - gene expression 9022
  - molecular genetics 9022

Pome fruits, breeding 4121

Poncirus
- aspartate aminotransferase 9627
- chloroplast genetics 9626
- isoenzymes 9627
- mitochondrial genetics 9626
- restriction fragment length polymorphism 9626
- taxonomy 9627-9628

Poncirus trifoliata
- anther culture 1915
- citrus tristeza closterovirus 12016
- genetic transformation 10805
- genetics, acid phosphatase 3175
- *in vitro* selection, salinity 1242
- isoenzymes 13098
- *Phytophthora citrophthora* 12016
- plant embryos 13098
- variety classification 13098

***Poncirus* × *Citrus*,** intergeneric hybridization 1242, 3176, 4179, 8447, 12016

Poplar mosaic carlavirus
- *Populus canadensis* 3345
- *Populus deltoides* 3345
- *Populus maximowiczii* 3345
- *Populus nigra* 3345
- *Populus trichocarpa* 3345

Population genetics 85, 93, 1177, 1179, 1221, 3532, 4599, 4602, 4608, 4613-4615, 5710, 5794-5795, 6681-6684, 6691, 8825, 8830-8833, 8835-8837, 8839-8840, 8842, 10034, 10050, 11231
- *Acer saccharum* 7382
- *Astrocaryum mexicanum* 979
- *Avena* 1244
- *Avena barbata* 12636
- *Avena hirtula* 12636
- breeding 10
- computer programming 95-96, 1172
- *Cunninghamia lanceolata* 13324
- *Deschampsia cespitosa,* isoenzymes 465, 11653
- *Fagus sylvatica* 9785
- forest trees 12181
- *Fragaria chiloensis* 5279
- history 2364-2365
- *Hordeum spontaneum* 1244
- *Hordeum vulgare* 1244
- isoenzymes 1178
- *Juniperus monosperma* 9827
- *Juniperus osteosperma* 9827
- *Limnanthes* 873
- *Lolium perenne* 8066-8067
- mathematics 4605, 5791, 6688
- *Phacelia dubia* 9872
- *Pinus contorta* 6549
- *Pinus elliottii* 9812
- *Pinus sylvestris* 13300-13301
- *Pinus taeda,* statistics 9807
- *Quercus laevis* 8593
- *Quercus margaretta* 8593
- *Quercus robur* 6692
- reviews 89, 10033
- seeds 94
- stability 2363
- statistics 90, 2379, 7669, 8846, 9217, 9812
- *Thuja plicata,* statistics 9807
- *Trifolium repens*
  - cyanogens 9297
  - linamarase 9297
- *Vicia unijuga,* histones 483
- *Zea* 1244
- *Zea mays* 1244

Population genetics *cont.*
  Zea mays cont.
    statistics 12666
Populus
  artificial selection 10999
    habit 13272
    morphology 13272
  clonal variation
    development 6541
    proteins 6541
  cytoplasmic male sterility, statistics 1194
  defoliation 5544
  diseases 7437
  drought resistance 6543
  embryo culture 8602
  genetic engineering 7436
  genetic markers 7437
  genetic transformation 6538, 7436, 8598, 13270
  heritability, habit 12188
  in vitro selection
    Coryneum populinum 5547
    Hypoxylon mammatum 4350
  interspecific hybridization 8602
  leaves 5543
  Melampsora larici-populina 7447
  molecular genetics, taxonomy 5542
  nucleotide sequences, dihydrodipicolinate synthase 12187
  photosynthesis 6543
  plant hairs 5543
  protoplasts 13273
  random amplified polymorphic DNA
    taxonomy 8604
    variety classification 8604
  restriction fragment length polymorphism 8587
    Pemphigus betae 975
  somaclonal variation
    leaves 12189-12190
    Melampsora 4350
    morphology 4350
    photosynthesis 12189
  taxonomy 5543
  tissue culture 7438, 9789
  Triticum aestivum, crop mixtures 1321
  wood properties 6542, 8603
  Xanthomonas populi 8606
Populus alba
  Chrysomela 5548
  β-galactosidase 5539
  genetic transformation
    proteinase inhibitors 2117
    protoplasts 8599
  interspecific hybridization 2117, 3344, 5539, 5548, 6538, 8599, 13270, 13273
  peroxidases 3344
  pollination 5539
  tissue culture 6538
Populus angustifolia
  insects 7448
  interspecific hybridization 975
Populus balsamifera
  anther culture 9788
  clonal variation
    growth period 2118
    height 2118
  gene mapping 5536
  heritability
    growth period 2118
    height 2118
  interspecific hybridization 12189-12190
  latitude 2118
  rooting capacity 10990
Populus canadensis
  genetic transformation, proteinase inhibitors 2117
  interspecific hybridization 3345, 12188, 13272
  poplar mosaic carlavirus 3345
  provenance trials 5535
Populus canescens, genetic transformation 12186
Populus deltoides
  artificial selection 10999
  clonal variation, yield components 13271
  defoliation 5544
  drought resistance 8605, 13274
  gene expression, injuries 974
Populus deltoides *cont.*
  genetics
    Melampsora allii-populina 4351
    Melampsora larici-populina 4351
  genotype mixtures 13271
  heritability
    Melampsora allii-populina 8611
    Melampsora larici-populina 8611
  interspecific hybridization 3345, 5544, 8607, 12188, 12191, 13270, 13272
  Melampsora larici-populina 12191
  Melampsora occidentalis 8607
  molecular genetics, injuries 974
  nucleotide sequences, proteins 5537
  photosynthesis 8605
  poplar mosaic carlavirus 3345
  provenance trials 5535
  roots 5540
Populus fremontii
  insects 7448
  interspecific hybridization 975
Populus grandidentata
  genetic transformation, proteinase inhibitors 2117
  genetic variation, isoenzymes 8601
  interspecific hybridization 2117, 6538
  random amplified polymorphic DNA, variety classification 8601
  restriction fragment length polymorphism, variety classification 8601
  tissue culture 6538
Populus hopeiensis
  interspecific hybridization 3344
  peroxidases 3344
Populus interamericana
  clonal variation, isoenzymes 6540
  drought resistance 13274
  nucleotide sequences, adenosylmethionine synthetase 5538
  roots 5540
Populus maximowiczii
  anther culture 9788
  interspecific hybridization 3345
  poplar mosaic carlavirus 3345
Populus nigra
  β-galactosidase 5539
  genetic resources 9787
  genetic transformation 6539
    Apocheimia cinerarius 5549
    Lymantria dispar 5549
  in vitro culture 8610
  interspecific hybridization 3345, 5539, 5544, 8610, 13270
  pollination 5539
  poplar mosaic carlavirus 3345
  somaclonal variation, *Mycosphaerella populorum* 8610
  tissue culture 5541
Populus simonii, interspecific hybridization 12188, 13272
Populus tremula
  Chrysomela 5548
  genetic transformation, protoplasts 8599
  interspecific hybridization 5548, 8599, 13270, 13273
Populus tremuloides
  air pollution 5522, 5545-5546
  Chrysomela 5548
  genetic variation, isoenzymes 8601
  genetics
    Hypoxylon mammatum 8608
    isoenzymes 7446
  Hypoxylon mammatum 8609
  interspecific hybridization 5548
  linkage, isoenzymes 7446
  ozone 5522, 5545-5546
  photosynthesis 5545
  random amplified polymorphic DNA, variety classification 8601
  restriction fragment length polymorphism
    isoenzymes 7446
    variety classification 8601
  toxic substances 5522, 5545-5546
Populus trichocarpa
  anther culture 9788
  clonal variation
    development 6541
    proteins 6541
  drought resistance 13274
  gene expression, injuries 974
  in vitro culture 8610
Populus trichocarpa *cont.*
  interspecific hybridization 3345, 8607, 8610, 12189-12191, 13270
  Melampsora larici-populina 12191
  Melampsora occidentalis 8607
  molecular genetics, injuries 974
  photosynthesis 8600
  poplar mosaic carlavirus 3345
  roots 5540
  somaclonal variation, *Mycosphaerella populorum* 8610
Populus xiaohei
  anther culture 2119
  haploidy 2119
  somaclonal variation 2119
Porphyra yezoensis, cryopreservation 5685
Porteresia coarctata, genetic resources 6011
Porteresia × Oryza, intergeneric hybridization 2731
Portulaca grandiflora, taxonomy 6600
Portulaca okinawensis, taxonomy 6600
Portulaca oleracea, taxonomy 6600
Portulaca pilosa, taxonomy 6600
Portulaca quadrifida, taxonomy 6600
Posidonia oceanica, protoplasts 6617
Potassium
  Brassica juncea 4223
  Brassica napus, rape 4223
  Cocos nucifera 6391, 6398-6400
  Festuca pratensis 11642
  Gossypium hirsutum 12163
  Oryza sativa 4894, 6993
  Sorghum bicolor 2709
  Triticum aestivum
    genetic variance 3637
    genotype environment interaction 2510
    heritability 3637
Potassium chlorate, *Oryza sativa* 6024
Potato leaf roll luteovirus
  Nicotiana tabacum, genetic transformation 4312
  Solanum brevidens 10602
  Solanum chacoense, genetics 10608
  Solanum tuberosum 8263, 10602-10604
    genetic transformation 12944
    genetics 12945
    reviews 10601
Potato leafroll luteovirus
  Lycopersicon 7232
  Lycopersicon peruvianum 7232
  Solanum 2998
  Solanum tuberosum 2998-3000, 3004, 4008, 7169, 11841
    genetics 615
Potato M carlavirus
  Solanum gourlayi, genetics 7169
  Solanum megistacrolobum, genetics 7169
  Solanum tuberosum 3000, 7169
Potato S carlavirus, *Solanum tuberosum* 3002, 3005, 10606
Potato spindle tuber viroid
  Nicotiana tabacum, genetic transformation 9723
  Solanum tuberosum 614, 12943
Potato X potexvirus
  Nicotiana benthamiana
    gene expression 4480
    genetic transformation 4480
  Nicotiana glutinosa 10942
  Nicotiana tabacum 10942
    gene expression 4480
    genetic transformation 4480, 6502
  Phytolacca americana
    gene expression 4480
    genetic engineering 4480
  Solanum brevidens 10602
  Solanum tuberosum 2999, 3002-3003, 3005, 8280, 9477, 10602, 10605-10606
    gene expression 4480, 6243
    gene mapping 11834
    genetic transformation 4480, 5115
    restriction fragment length polymorphism 2976, 11834
    reviews 10601
Potato Y potyvirus
  Capsicum annuum 5202
    genetics 5201
  Nicotiana benthamiana
    gene expression 4480

Potato Y potyvirus *cont.*
- *Nicotiana benthamiana cont.*
  - genetic transformation 4480
- *Nicotiana clevelandii* 3310
- *Nicotiana glutinosa* 10942
- *Nicotiana tabacum* 3310, 10942
  - artificial selection 3311
  - gene expression 4480, 10949, 10953
  - genetic transformation 3301, 4480, 7392, 8568, 8570, 10949, 10953
  - linkage 7392
- *Phytolacca americana*
  - gene expression 4480
  - genetic engineering 4480
- *Solanum brevidens* 10602
- *Solanum tuberosum* 2999-3002, 3005, 7169, 8280, 9477, 10602, 10605-10606
  - gene expression 4480
  - gene mapping 11834
  - genetic transformation 4480, 10600
  - genetics 7169
  - restriction fragment length polymorphism 11834
  - reviews 10601

Potentilla
- interspecific hybridization 5621
- taxonomy 5621, 7518

Pouteria lucuma, tissue culture 5334

Prasophyllum chasmogamum, nomenclature 12277

Prasophyllum correctum, nomenclature 12277

Pratylenchus vulnus, *Prunus,* peaches, genetics 11985

Precipitation
- *Secale cereale* 8992
- triticale 8992
- *Triticum aestivum* 8992

Precocity
- *Allium cepa* 9501
- *Cocos nucifera* 6400
- *Juglans regia* 5336
- *Malus* 10726
- *Malus pumila* 10726
  - combining ability 10725
- *Phaseolus vulgaris* 5028
- *Pyrus* 7260

Primisulfuron, *Elymus repens* 3890

Primula
- flowers 4420
- heterostyly 4420
- pollen 4420

Primula veris
- gene flow 1000
- genetic distance 1000
- polymorphism, isoenzymes 1000
- taxonomy 5644

Priogymnanthus, taxonomy 11018

Proanthocyanidins, *Vitis vinifera* 10792

Profilins
- *Zea mays*
  - gene expression 310
  - molecular genetics 310, 5799

Prolamins
- *Agropyron* 7754
- *Elymus* 7754
- *Elymus ciliaris* 10405
- *Elymus dahuricus* 10405
- *Elymus sibiricus* 10405
- grasses 1647, 3901
- *Hordeum vulgare* 2432
- *Oryza sativa*
  - gene expression 10379, 11559
  - genetics 4893
  - induced mutations 4893
  - molecular genetics 11555
  - nucleotide sequences 11559
- *Sorghum bicolor* 12695
- triticale 2662
- Triticeae, immunology 6733
- *Triticum* 7754
- *Triticum aestivum* 2432

Prolificacy, *Zea mays,* artificial selection 9111

Proline
- *Citrus* 799
- crops 8917
- *Elaeis guineensis* 853
- *Medicago sativa* 6083
- *Nicotiana tabacum* 934

Proline *cont.*
- *Nicotiana tabacum cont.*
  - *in vitro* selection 5462
- *Oryza sativa, in vitro* selection 11606
- *Phaseolus vulgaris,* gene expression 540
- *Raphanus sativus* 629
- *Triticum aestivum* 1329, 2518, 8917
  - artificial selection 12557

Proline-rich proteins
- *Brassica napus*
  - rape
    - gene expression 5365
    - nucleotide sequences 5365
- *Glycine max*
  - linkage 11702
  - molecular genetics 11702
- *Medicago truncatula,* nucleotide sequences 11658
- *Nicotiana tabacum,* gene expression 4300

Prometryn, *Gossypium hirsutum,* genetics 6524

Propanil, *Echinochloa colonum* 7989

Prosopis persica, taxonomy 7467

Prosopis velutina, genetic variation, isoenzymes 13282

Prostephanus truncatus, *Zea mays* 4855

Protected cultivation
- *Fragaria ananassa* 1903
- *Prunus persica* 11979
- *Rubus* 5264
- *Vitis vinifera* 10781

Protein kinase
- *Arabidopsis thaliana*
  - gene expression 67, 2352, 3513, 4580, 10017, 11201
  - molecular genetics 67, 4580, 10017
  - nucleotide sequences 2352, 7620, 11201
- crops, gene expression 44
- *Glycine max,* nucleotide sequences 1699
- *Nicotiana tabacum*
  - gene expression 2055
  - nucleotide sequences 2055
- *Oryza sativa*
  - gene expression 8013
  - nucleotide sequences 8013

Proteinase inhibitors
- *Lycopersicon esculentum* 10030
  - gene expression 4056, 13014-13015
  - genetic transformation 6265
  - molecular genetics 13015
  - mutations 4064
  - nucleotide sequences 4056, 9537
- *Nicotiana tabacum*
  - gene expression 9720
  - molecular genetics 6505
  - nucleotide sequences 9720
- *Populus alba,* genetic transformation 2117
- *Populus canadensis,* genetic transformation 2117
- *Populus grandidentata,* genetic transformation 2117
- *Solanum tuberosum*
  - gene expression 3995
  - molecular genetics 605
  - nucleotide sequences 3995
- *Vigna unguiculata,* molecular genetics 588
- *Zea mays*
  - gene expression 11500
  - nucleotide sequences 11500

Proteinases
- *Arabidopsis thaliana,* molecular genetics 3504
- *Carica papaya,* nucleotide sequences 3178
- *Cynara cardunculus*
  - gene expression 8320
  - nucleotide sequences 8320

Proteins
- *Antirrhinum majus*
  - gene expression 1013
  - molecular genetics 1013
- *Arabidopsis thaliana*
  - gene expression 12416, 12420
  - mutations 12416, 12420
  - nucleotide sequences 3502, 4588-4589, 7638
- *Arachis* 13161-13162
- *Arachis hypogaea* 3237, 6421, 10881

Proteins *cont.*
- *Atylosia* × *Cajanus,* heterosis 577
- *Avena sativa,* artificial selection 3691
- Bambuseae 1063
- *Brassica napus*
  - rape 5374
    - gene expression 8469
    - nucleotide sequences 8469
- cereals 8871
- *Cicer* 9418
- *Colocasia esculenta,* nucleotide sequences 12961
- *Corylus* 7316
- crops 2888
  - genetic transformation 8802
- *Cucumis melo* 3089
- *Dasypyrum* × *Triticum* 12492
- evolution 12454
- *Ginkgo biloba*
  - nucleotide sequences 13323
  - polymerase chain reaction 13323
- *Glycine* 2857
- *Glycine max* 517, 2857, 4981, 4988, 6132-6133, 11719, 12840
  - artificial selection 1707, 3945, 11697
  - combining ability 518
  - germplasm releases 9357
  - induced mutations 1709
- *Glycine soja* 7087
- *Helianthus* 7347
- *Helianthus annuus,* genetic engineering 8133
- *Helianthus tuberosus* 5137
- *Hibiscus cannabinus* 13249
- *Hordeum spontaneum*
  - gene location 12606
  - genetics 12606
- *Hordeum vulgare* 281, 4766, 4768, 7851
  - back mutations 2589, 2612
  - gene location 12606
  - genetics 2589, 2612, 2616, 12606
  - induced mutations 4759
  - molecular genetics 1250
  - mutations 2589, 2612, 2616
- *Hordeum* × *Triticum* 3597, 6730
- *Iris* 1022
- *Lens culinaris* 5060, 7070
- *Leymus arenarius* 3887
- *Lolium multiflorum* 6067
- *Lolium perenne* 6067
- *Lupinus*
  - gene expression 8133
  - genetic transformation 8133
- *Lupinus albus* 7065
- *Lycopersicon,* polymorphism 10656
- *Lycopersicon esculentum* 10670
  - gene expression 667, 7214
  - nucleotide sequences 6263, 7214
- *Macrotyloma* × *Lablab* 6227
- *Medicago sativa* 2830, 4939
  - gene expression 8133
  - genetic transformation 8133
- *Melocanna* 1063
- molecular genetics 4570
- *Nicotiana sylvestris* 2065
- *Nicotiana tabacum*
  - gene expression 9722
  - nucleotide sequences 9722
- *Oryza sativa* 436, 3833
  - genetics 3830
  - heterosis 6976
  - linkage 3830
  - mutations 9228
- *Oxalis tuberosa* 1813
- *Pachyphytum,* nucleotide sequences 5656
- *Pachyrhizus erosus,* induced mutations 1814
- *Pennisetum purpureum* 9191
- *Petunia hybrida,* molecular genetics 1015
- *Phaseolus vulgaris* 542, 2888, 6164
- *Pinus pinaster,* genetic variation 12215
- *Pisum sativum* 555, 1691, 2903, 2911, 7070, 7117
  - chloroplast genetics 12889
  - gene expression 8133
  - genetic transformation 8133
  - molecular genetics, reviews 6180
  - mutations 2910
  - nucleotide sequences 12889
- *Populus,* clonal variation 6541

Proteins *cont.*
  Populus deltoides, nucleotide sequences 5537
  Populus trichocarpa, clonal variation 6541
  Saccharum, nucleotide sequences 5412
  Secale vavilovii 8983
  Sesamum indicum 6430
  Solanum melongena, nucleotide sequences 4077
  Sorghum bicolor 357, 6938
    gene expression 6918
    nucleotide sequences 6918
  Spinacia oleracea
    molecular genetics 1821
    nucleotide sequences 9524
    polymerase chain reaction 9524
  Trifolium subterraneum
    gene expression 8133
    genetic transformation 8133
  Trigonella foenum-graecum 5671
  triticale 10213
  triticale × *Triticum,* chromosome addition 8994
  Triticum aestivum 1301, 2480, 2504, 4711, 8911, 10091, 11339-11340
    chromosome addition 8994
    combining ability 10116
    gene expression 2483
    gene location 2483
    genetics 1297, 3633
    molecular genetics 1250
    mutations 1297, 2483
    nucleotide sequences 3593
    stability 4719
  Triticum durum 11339
    combining ability 8896
    genetic variance 8896
    heterosis 8896
  Tropaeolum tuberosum 1813
  Ullucus tuberosus 1813
  Vicia faba 529, 1691, 5006, 5009
    nucleotide sequences 1716
  Vicieae 9418
  Vigna unguiculata 6216, 9438, 12917
  Vigna vexillata 6216
  Zea mays 7933, 9137, 11501
    artificial selection 7940, 11473
    gene mapping 7942
    linkage 7940
    molecular genetics 1716
    restriction fragment length polymorphism 7942, 11473
  Zinnia elegans 7513
Protochlorophyllide reductase, *Ginkgo biloba,* nucleotide sequences 12226
Protoplast fusion 5812
  Abrus (×) *Glycyrrhiza* 12435
  Agaricus bisporus 5684
  Arabidopsis (×) *Brassica* 5358, 7326
  Atalantia (×) *Citrus* 3174
  Atropa (×) *Hyoscyamus* 3426
  Barbarea (×) *Brassica* 8472
  Brassica 3196
  Brassica campestris 4209, 7326
  Brassica juncea 7326, 8476
  Brassica napus 7326
    rape 5361
  Brassica nigra 7326
  Brassica oleracea 4209, 7326
  Brassica oxyrrhina 8476
  Brassica (×) *Arabidopsis* 5358, 7326
  Brassica (×) *Barbarea* 8472
  Brassica (×) *Camelina* 13127
  Brassica (×) *Eruca* 7326
  Brassica (×) *Raphanus* 5357
  Brassica (×) *Thlaspi* 7325-7326
  Camelina (×) *Brassica* 13127
  Cichorium (×) *Helianthus* 5161
  Citropsis (×) *Citrus* 10809
  Citrus 795, 4178, 7301, 10807
  Citrus aurantiifolia 3173
  Citrus limon 7301
  Citrus sinensis 3173
  Citrus (×) *Atalantia* 3174
  Citrus (×) *Citropsis* 10809
  computer simulation 4638
  Cucumis (×) *Cucurbita* 712
  Cucurbita (×) *Cucumis* 712
  Daucus (×) *Nicotiana* 8283
  Echinochloa (×) *Oryza* 11593
Protoplast fusion *cont.*
  Eruca (×) *Brassica* 7326
  Festuca (×) *Lolium* 12786
  Glycyrrhiza (×) *Abrus* 12435
  Helianthus (×) *Cichorium* 5161
  Hyoscyamus albus 11103
  Hyoscyamus muticus 11103
  Hyoscyamus (×) *Atropa* 3426
  Lentinula (×) *Lentinus* 2243
  Lentinus (×) *Lentinula* 2243
  Lolium (×) *Festuca* 12786
  Lolium (×) *Triticum* 192
  Lotus (×) *Oryza* 1672
  Lotus (×) *Oryza* 12730
  Lycopersicon esculentum 7218, 11236
  Lycopersicon peruvianum 7218
  Lycopersicon (×) *Nicotiana* 4058
  Lycopersicon (×) *Solanum* 2954, 4059, 5090, 5174, 7217, 9457
  Medicago (×) *Onobrychis* 3536, 3889, 4942
  Nicotiana, cytoplasmic male sterility 10935
  Nicotiana benthamiana 3313
  Nicotiana glutinosa 8550
  Nicotiana plumbaginifolia 2059, 4297, 8549, 13218
  Nicotiana rustica 7393
  Nicotiana suaveolens 12142, 13220
  Nicotiana sylvestris 2059, 4297
  Nicotiana tabacum 3313, 7393, 8549-8550, 12142, 13218, 13220
  Nicotiana (×) *Daucus* 8283
  Nicotiana (×) *Lycopersicon* 4058
  Nicotiana (×) *Solanum* 925
  Nicotiana (×) *Spinacia* 3281
  Onobrychis (×) *Medicago* 3536, 3889, 4942
  Oryza (×) *Echinochloa* 11593
  Oryza (×) *Lotus* 1672
  Oryza (×) *Lotus* 12730
  Panicum (×) *Paspalum* 11236
  Paspalum (×) *Panicum* 11236
  Petunia hybrida 8701
  Petunia variabilis 8701
  Raphanus (×) *Brassica* 5357
  reviews 99, 2391-2392
  Senecio jacobaea 5629
  Senecio nemorensis 5629
  Solanum aculeatissimum 4473
  Solanum berthaultii 2954
  Solanum brevidens 2981, 3998, 6230, 10602, 11837
  Solanum bulbocastanum 6244, 11810, 12932
  Solanum commersonii 8259, 10572
  Solanum khasianum 4473
  Solanum phureja 2955, 8255
  Solanum pinnatisectum 12932
  Solanum torvum 2954, 2985
  Solanum tuberosum 2954-2956, 2981, 2985, 3998, 6230, 6244, 8237, 8255, 8259, 9456, 10572, 10602, 11810, 11837, 12463, 12932
  Solanum vernei 2955
  Solanum (×) *Lycopersicon* 2954, 4059, 5090, 5174, 7217, 9457
  Solanum (×) *Nicotiana* 925
  Spinacia (×) *Nicotiana* 3281
  temperate fruits 3107
  Thlaspi (×) *Brassica* 7325-7326
  Triticum (×) *Lolium* 192
  Volvariella diplasia 2244
  Volvariella volvacea 2244
  Zea mays 2680, 2686
Protoplasts 5812, 10046
  Actinidia deliciosa 1910, 7298, 8432
  Agrostis alba 10408
  Agrostis stolonifera 10408
  Arabidopsis thaliana 7653
  Arachis paraguariensis 864
  Arundinaria pygmaea 11122
  Asparagus officinalis 659, 10651, 12985
  Bambusa multiplex 11122
  Bambusa oldhami 11122
  Beta maritima 7379
  Beta vulgaris
    fodder beet 7379
    sugarbeet 6458, 7379
  Brassica campestris, turnip rape 4218
  Brassica napus 1957
Protoplasts *cont.*
  Brassica napus cont.
    rape 838, 5369
  Brassica oleracea 4033, 8306-8307, 11866
    broccoli 9518
    cauliflowers 7199
  Capsicum annuum 8362
  Capsicum chinense 8362
  Catharanthus roseus 13384
  Cichorium intybus 12989
  Citrullus lanatus 11914
  Citrus reticulata 13094
  Citrus sinensis 802
  Coffea arabica 10920
  crops 120
  Cucumis melo 10698
  Diospyros kaki 811
  edible fungi 4508
  Eucalyptus gunnii 7441, 9780
  Festuca rubra 8073
  fruit crops 3558
  gene expression 10047
  Ginkgo biloba 988
  Glycine max 505
    gene expression 505
    genetic transformation 505
  Gossypium 8576
  Gossypium arboreum 7414
  Gossypium herbaceum 7414
  Gossypium hirsutum 948, 4334
  grain legumes 499
  Helianthus annuus 845, 1970, 13144
  Hevea brasiliensis 6529
  Hordeum murinum 5916
  Hordeum vulgare 279, 3680, 7706, 10175-10176, 12611
  Humulus lupulus 11115
  Ipomoea batatas 623, 12956
  Larix decidua 13322
  Lilium maculatum 9889
  Lilium speciorubel 9889
  Lolium boucheanum 4920
  Lolium multiflorum 4920
  Lolium perenne 4920
  Lonicera brownii 4396
  Lonicera fragrantissima 4396
  Lonicera periclymenum 4396
  Lycopersicon esculentum 676, 7224, 8347
  Lycopersicon pennellii 676
  Malus pumila 736, 3107
  Medicago polymorpha 2829
  Musa 4174, 6317
  Nicotiana glauca 8558
  Nicotiana plumbaginifolia 12129, 13230
  Nicotiana sylvestris 10934
  Nicotiana tabacum 2076, 3288, 3680
    gene expression 10465
    genetic engineering 10465
  Onobrychis viciifolia 9316
  Oryza granulata 435
  Oryza rufipogon 426
  Oryza sativa 429-430, 1574, 3812, 4889, 6041, 6044, 6984, 8011, 10375, 10378
  Passiflora amethystina 4197
  Passiflora cincinnata 4197
  Passiflora edulis 4197
  Petunia 4438
  Petunia hybrida 8702
    gene expression 1016
    genetic transformation 1016
  Phyllostachys aurea 11122
  Picea abies 7487
  Pleurotus salmoneostramineus 6620
  Populus 13273
  Populus alba, genetic transformation 8599
  Populus tremula, genetic transformation 8599
  Posidonia oceanica 6617
  Prunus 3107
  Prunus persica 6305, 8412
  Pyrus communis 3107
  Quercus acutissima 12185
  Saccharum officinarum 2011, 3260, 9699, 12104
  Saintpaulia ionantha 7515
  Solanum 2968
  Solanum tuberosum 1788, 2968, 3003

- **Protoplasts** *cont.*
  - *Sorghum bicolor* 356
  - techniques 119
  - temperate fruits, reviews 3107
  - *Trifolium pratense* 8114
  - triticale 8987
  - *Triticum aestivum* 3627, 7706
  - *Triticum durum* 3627
  - *Triticum timopheevii* 4708
  - *Vigna angularis* 1771
  - woody plants 3558
  - *Zea mays* 3725, 5955, 6896
- **Provenance trials**
  - *Abies grandis* 5599
  - *Acacia* 4354
  - *Acacia auriculiformis* 7451, 9792, 13277
  - *Acacia crassicarpa* 9791
  - *Acacia holosericea* 7451
  - *Alnus glutinosa* 13279
  - *Betula pendula* 3341
  - *Crataegus monogyna* 13055
  - *Eucalyptus* 9782, 10992
  - *Eucalyptus camaldulensis* 5526
  - *Eucalyptus grandis* 9782
  - *Eucalyptus nitens* 5525
  - *Faidherbia albida* 12193
  - *Gliricidia sepium* 12195, 12202
  - *Grevillea robusta* 9798
  - *Hevea brasiliensis,* yield components 12179
  - *Hippophae rhamnoides* 5308
  - *Pinus brutia* 2137, 8630
  - *Pinus eldarica* 8630
  - *Pinus elliottii* 8751
  - *Pinus halepensis* 8630
  - *Pinus maximinoi* 13291
  - *Pinus patula* 7476-7477
  - *Pinus pinaster* 5578, 12215
  - *Pinus taeda* 8631, 8751
  - *Populus canadensis* 5535
  - *Populus deltoides* 5535
  - *Pseudotsuga menziesii* 6556, 12225
  - *Sequoiadendron giganteum* 4382
  - *Sesbania macrantha* 12194
  - *Sesbania sesban* 12194
- **Prune dwarf ilarvirus**
  - *Prunus,* plums 8399
  - *Prunus armeniaca* 8399
  - *Prunus dulcis* 3182
  - *Prunus persica* 8399
- **Pruning** (*see also* Chemical pruning)
  - *Prunus persica* 10760
- ***Prunus***
  - androecium 741
  - breeding 4118, 4132
  - chromosome pairing 1897
  - genetic resources, reports 7265
  - genetics, coumarins 11956
  - genomes 1897
  - gynoecium 741
  - interspecific hybridization 745
  - *Meloidogyne incognita* 11943
  - *Meloidogyne javanica* 11943
  - Nematoda 10715
  - plant introduction 4132
  - plum pox potyvirus 7266
  - pollen germination 741
  - protoplasts 3107
  - *Pseudomonas syringae* 11981
  - rootstocks 10715, 11943
  - somaclonal variation 3107
  - cherries
    - *Blumeriella jaapii* 8403
    - chloroplast genetics 3140
    - evolution 3140
    - fruits 750
    - genetic resources 9584
    - growth period 5254
    - height 9584
    - *Pseudomonas syringae* 4138
    - restriction fragment length polymorphism 3140
    - taxonomy 3140
    - texture 750
    - yield correlations 5254
    - varieties 10748
      - Chelan 9585
      - Fercer-Arcina 4136
  - peaches
    - genetics
      - *Meloidogyne incognita* 11985
- ***Prunus*** *cont.*
  - peaches *cont.*
    - genetics *cont.*
      - *Pratylenchus vulnus* 11985
    - varieties, GaLa 10752
  - plums
    - apple chlorotic leafspot virus 3139
    - apple mosaic ilarvirus 8399
    - breeding 3134
      - history 3103
    - Byrongold 745
    - cold resistance 3134
    - combining ability, *Xanthomonas campestris* 4135
    - embryo sac 3136
    - genetic resources 13056
    - genetics, rootstocks 11955
    - interspecific hybridization 3130
    - *Monilinia* 10745
    - plant composition 8402
    - plant disorders 10745
    - plum pox potyvirus 7273, 10746
    - pollen germination 3136
    - prune dwarf ilarvirus 8399
    - prunus necrotic ringspot ilarvirus 3139, 8399
    - quality 3134, 3137
    - rootstocks 3130
    - Rubysweet 745
    - seasonal growth 13056
    - Segundo 745
    - self compatibility 3136
    - tissue culture 11961
    - varieties 3137
    - *Xanthomonas campestris* 3138, 11963
    - varieties 3130
      - Changli-109 746
      - Changli-15 746
      - Changli-84 746
      - Sui Li-2 13060
      - Yunyang Hongmeigueili 8401
- ***Prunus armeniaca***
  - acid phosphatase 3132
  - apple mosaic ilarvirus 8399
  - aroma 11957
  - breeding 7267, 10742, 11959
  - clonal variation, quality 743
  - compatibility 3131
  - embryo culture 6300
  - esterases 3132
  - genetic transformation, plum pox potyvirus 5467, 13058
  - genetics, male sterility 13059
  - gynoecium 9583
  - interspecific hybridization 745, 11957
  - isoenzymes 3132
  - malate dehydrogenase 3132
  - multivariate analysis, morphology 10743
  - phosphoglucomutase 3132
  - plant introduction 10742
  - pollination 11960
  - prune dwarf ilarvirus 8399
  - prunus necrotic ringspot ilarvirus 8399
  - *Pseudomonas syringae* 3133, 7272
  - rootstocks 7272
  - self incompatibility 3131
  - tissue culture 742
  - variety classification 3132, 5245
  - varieties 5244
    - Avignel-Mariem 7268
    - CluthaSun 11959
    - Dulcinea 7270
    - Noemi 7269
    - Pisana 7271
- ***Prunus avium***
  - *Blumeriella jaapii* 10751, 11965
  - breeding 5249-5250, 10747
    - history 3103
  - cold resistance 10751, 13065
  - compatibility 11964
  - cryopreservation 6294
  - embryo culture 749, 9586
  - growth period 5253
  - induced mutations 5250
  - mechanical damage 4137
  - pollination 7276, 10749
  - radiation 5250
  - respiration 4137
  - self incompatibility 7276
  - *Stigmina carpophila* 10751
  - tissue culture 7277, 7438, 12182
- ***Prunus avium*** *cont.*
  - wood properties 5558
- ***Prunus besseyi***
  - *Agrobacterium tumefaciens* 5248
  - rootstocks 5248
- ***Prunus cerasifera***
  - cold resistance 10744
  - genetics, rootstocks 11955
  - interspecific hybridization 1897, 3134
  - molecular genetics 13061
  - varieties 10744
- ***Prunus cerasus***
  - *Blumeriella jaapii* 11965
  - breeding 13045
  - genetics, isoenzymes 13062
  - growth period 5253
  - induced mutations 1069
  - interspecific hybridization 13062
  - quality 10750, 13063-13064
  - rootstocks 5251
  - varieties 5244
    - Tabel Edabriz 5251
- ***Prunus domestica***
  - *Agrobacterium tumefaciens* 5248
  - aroma 11957
  - breeding 3135, 5246
  - cold resistance 11958
  - genetic transformation 3108
    - plum pox potyvirus 13058
  - grafting 5247
  - growth period 744
  - interspecific hybridization 11957
  - photosynthesis 5247
  - rootstocks 5248, 11958
  - sorbitol 11962
  - sugars 11962
  - tissue culture 3108
  - variety trials 744
  - varieties 5244
    - Fla. 1-2 747
- ***Prunus dulcis***
  - apple mosaic ilarvirus 3182
  - combining ability, yield components 13116
  - gene flow 1922
  - genetic variance, yield components 13116
  - interspecific hybridization 10759, 11981
  - pollen 1922
  - pollination 1922
  - prune dwarf ilarvirus 3182
  - prunus necrotic ringspot ilarvirus 3182
  - storage, tissue culture 10759
  - tissue culture 8454
  - yield components 814
- ***Prunus fruticosa***
  - genetics, isoenzymes 13062
  - interspecific hybridization 13062
- ***Prunus humilis,*** artificial selection 6301
- ***Prunus mahaleb***
  - male sterility 7275
  - pollination 7275
  - rootstocks 5252
  - sexual reproduction 6302
- ***Prunus mume,*** varieties, Ruantiao Hongmei 6299
- **Prunus necrotic ringspot ilarvirus**
  - *Prunus,* plums 3139, 8399
  - *Prunus armeniaca* 8399
  - *Prunus dulcis* 3182
  - *Prunus persica* 8399
  - *Prunus serrulata* 4133
  - *Prunus tomentosa* 4133
- ***Prunus persica***
  - *Agrobacterium tumefaciens* 8413
  - apple mosaic ilarvirus 8399
  - breeding 5255, 11977
  - chemical pruning 4142
  - cold resistance 11958, 11980, 13069
  - colour 11966
  - development 5259, 10756
  - embryo culture 5261, 13057
    - growth regulators 8411
  - fertility 4142
  - fertilization 1898
  - flowers 11974
  - *Frankliniella occidentalis* 10761
  - fruits 5258, 10756, 11966
  - gamma radiation 8408
  - gene expression
    - dehydrin 10757

Prunus persica *cont.*
- gene expression *cont.*
  - fruits 4141, 9589
  - polygalacturonase 9589, 10758
  - ripening 4141, 9588-9589, 10758
- gene mapping 4140
  - isoenzymes 7279
  - morphology 7279
- genetic resources 6293, 11967, 13056, 13067
- genetics
  - habit 8410, 10714
  - height 8410
  - *Myzus persicae* 13070
  - rootstocks 11955
- growth period 756, 5259, 10756, 11977
- habit 10760, 11979
- height 11976
- hemicellulose 8409
- heritability
  - *Criconemella xenoplax* 4145
  - sugars 4143
- *in vitro* selection, *Xanthomonas campestris* 4144
- induced mutations, growth period 8408
- interspecific hybridization 1897, 3130, 10759, 11981
- *Leucostoma* 8414
- *Leucostoma cinctum* 11982
- *Leucostoma persoonii* 11982
- linkage 4140
  - isoenzymes 7279
  - morphology 7279
- *Meloidogyne incognita* 7281
- molecular genetics
  - fruits 4141
  - polygalacturonase 10758
  - ripening 4141, 10758, 13068
- *Monilinia fructicola* 11984
- multivariate analysis
  - quality 7280
  - yield components 7280
- nucleotide sequences
  - polygalacturonase 10758
  - ripening 10758
- ovule culture, growth regulators 8411
- pectins 8409
- photosynthesis 11975
- plant embryos 11974
- plant introduction 757, 759
- pollen 11973
- pollen competition 1898
- polymerase chain reaction
  - fruits 9589
  - polygalacturonase 9589
  - ripening 9589
- protected cultivation 11979
- protoplasts 6305, 8412
- prune dwarf ilarvirus 8399
- pruning 10760
- prunus necrotic ringspot ilarvirus 8399
- *Pseudomonas syringae* 11981
- quality 5262-5263
- random amplified polymorphic DNA
  - isoenzymes 7279
  - morphology 7279
- restriction fragment length polymorphism 4140
- ripening 8409
- rootstocks 6293, 7281, 11958
- seasonal growth 13056
- sexual reproduction 11974
- shape 5258
- somaclonal variation 5261
- *Sphaerotheca pannosa* 11983
- storage, tissue culture 10759
- *Synanthedon exitiosa* 758
- *Taphrina deformans* 757, 8415
- *Tetranychus urticae* 759
- tissue culture 5260, 11978
- varieties
  - computer programming 9587
  - databases 9587
- variety trials 7278, 11968
- water balance 8414
- yield components 752
- varieties 751, 5244
  - Bonfire 8404
  - Crimson Cascade 8404
  - Delta 754
  - Early Okubo 753

Prunus persica *cont.*
- varieties *cont.*
  - Flordaprince 755
  - Guglielmina 10753
  - Hanlumitao 6304
  - Hesse 8407
  - Julija 11971
  - Leprechaun 8404
  - Masahime 8406
  - Meydicte-Bénédicte 5257
  - Monnude-Émeraude 11969
  - Pink Cascade 8404
  - Queen Lady 10754
  - Rich Lady 11970
  - Sunsplash 13066
  - Symphonie 4139
  - Top Lady 10755
  - Yoshihime 8405
  - Zaifave-Felicia 5256
  - Zaitabo-Big Top 11972
  - Zhejin-2 6303

Prunus salicina
- *Agrobacterium tumefaciens* 5248
- aroma 11957
- combining ability, *Xanthomonas campestris* 4135
- embryo culture 13057
- interspecific hybridization 3130
- rootstocks 5248
- storage, pollen 8400
- varieties 5244
  - Fortune 4134

Prunus serotina
- breeding 7274
- development 748
- multivariate analysis, seedlings 7274
- quality 7274
- roots 748
- seedlings 748
- seeds 748

Prunus serrulata
- Prunus necrotic ringspot ilarvirus 4133
- tissue culture 4133

Prunus spinosa
- *Agrobacterium tumefaciens* 5248
- interspecific hybridization 1897, 3130
- molecular genetics 13061
- rootstocks 5248

Prunus tomentosa
- Prunus necrotic ringspot ilarvirus 4133
- tissue culture 4133

Prunus ussuriensis, interspecific hybridization 3134

Psathyrostachys
- barley yellow dwarf luteovirus 11624
- *Erysiphe graminis* 11624
- gene location, taxonomy 7036
- restriction fragment length polymorphism, taxonomy 12619
- salinity 11650

Psathyrostachys juncea
- polyploidy 9265
  - seedlings 8078
  - tillering 8078
- *Sphenophorus parvulus* 4928
- varieties, Tetracan 9265

Psathyrostachys × Elymus, intergeneric hybridization 8077

Psathyrostachys × Leymus, intergeneric hybridization 11649

Psathyrostachys × Triticum
- chromosome aberrations 11316
- chromosome pairing 11316
- intergeneric hybridization 11316

Pseudatomoscelis seriatus, *Gossypium hirsutum* 9754

Pseudocercospora fuligena
- *Lycopersicon esculentum* 6274
- *Lycopersicon hirsutum* 6274
- *Lycopersicon peruvianum* 6274

Pseudocercosporella herpotrichoides
- *Aegilops × Triticum* 2535
  - chromosome addition 2532
- *Secale cereale*
  - combining ability 2656
  - genetic variance 6868
- *Triticum aestivum*
  - chromosome addition 2532
  - genetic markers 2534
  - germplasm releases 3654

Pseudoclausena chrysogyne, taxonomy 11014

Pseudogoodyera wrightii, taxonomy 4461

Pseudomonas
- *Brassica oleracea,* broccoli 8308
- *Hordeum vulgare* 2613
- *Nicotiana tabacum,* genetic transformation 12478

Pseudomonas corrugata, *Lycopersicon* 9550

Pseudomonas fuscovaginae, *Oryza sativa,* pleiotropy 1604

Pseudomonas glumae, *Oryza sativa* 12764

Pseudomonas lachrymans, *Cucumis sativus,* artificial selection 723

Pseudomonas pseudoalcaligenes, *Citrullus lanatus* 3091

Pseudomonas solanacearum
- *Arabidopsis thaliana*
  - gene expression 11227
  - genetic engineering 11227
- *Arachis hypogaea* 10885-10886, 12087-12088, 13165-13167
- *Capsicum annuum* 705, 4098, 5200
- *Capsicum frutescens* 4098
- crops 7593
- *Lycopersicon esculentum* 679, 3064, 3066, 5185, 8339, 10676, 11893
  - gene location 13016
  - genetic markers 8338, 13016
  - genetics 11892
  - molecular genetics 8338
- *Lycopersicon pimpinellifolium,* genetics 11892
- *Nicotiana tabacum* 3291-3292
  - genetic transformation 11227
- *Solanum* 694
  - tuberous species 11836
- *Solanum melongena* 694, 3082, 4082
- *Solanum torvum* 694
- *Solanum tuberosum* 5110, 5112, 7165, 10594, 11836
  - genetic variance 2984
  - genetics 8267

Pseudomonas syringae
- *Arabidopsis thaliana*
  - gene expression 2362, 10030
  - gene mapping 3529
  - genetics 1167-1168, 3529
  - induced mutations 10030
  - molecular genetics 1166, 4596, 5787
  - mutations 1165-1168, 2362, 5787
- *Brassica oleracea,* cauliflowers 3045
- *Cucumis melo* 716
- *Lycopersicon esculentum* 3063, 3065, 4072
  - gene expression 9549, 10677
  - genetic transformation 4074-4075
  - linkage 1843
  - molecular genetics 1843, 3067, 9551
  - mutations 10677
  - nucleotide sequences 4075
- *Lycopersicon peruvianum* 3065
- *Nicotiana tabacum* 3296
  - artificial selection 8563
  - gene expression 3290
  - genetic transformation 3290, 6498
- *Phaseolus vulgaris*
  - gene expression 5037
  - genetic transformation 5037
- *Pisum sativum,* genetics 12900
- *Prunus* 11981
  - cherries 4138
- *Prunus armeniaca* 3133, 7272
- *Prunus persica* 11981
- *Solanum tuberosum* 3065

Pseudomonas woodsii, *Dianthus caryophyllus* 8693

Pseudoperonospora cubensis
- *Cucumis melo* 3089
  - combining ability 13029
  - epistasis 13030
  - genetic variance 13029-13030
  - genetics 11907
  - heritability 13029
- *Cucumis sativus* 3100, 5218
  - artificial selection 723
- *Cucurbita moschata* 1861, 11922
- *Cucurbita pepo* 1861

Pseudotsuga menziesii
- artificial selection 8651
- biomass 8653

- ***Pseudotsuga menziesii*** *cont.*
  - *Choristoneura occidentalis* 987, 3366
  - chromosome banding 4381
  - cold resistance 5607, 12307
  - combining ability
    - wind 7495
    - yield components 7494
  - foliage area 8653
  - gene expression
    - dormancy 8652
    - temperature 8652
  - genetic distance, isoenzymes 4380
  - genetic variation, isoenzymes 9825
  - germination 7493, 8651
  - grafting 9826
  - heritability
    - buds 5606
    - wood properties 11032
    - yield components 7494
  - inbreeding, isoenzymes 4380
  - leaves 3366
  - photosynthesis 5605
  - pollination 5604
  - polymorphism, isoenzymes 9825
  - provenance trials 6556, 12225
  - seedlings 2149
  - seeds 2149
  - sugars 987
  - tissue culture 9826
  - variety trials 12307
  - vegetative propagation 9826
  - wood properties 6557-6558, 8654
  - yield correlations 7494
- ***Psidium guajava***
  - breeding 4190
  - genetic resources 4189
  - *in vitro* selection, *Acremonium* 10818
- ***Psophocarpus tetragonolobus***
  - gene expression
    - chymotrypsin inhibitors 5083
    - leghaemoglobin 7157
  - nucleotide sequences, chymotrypsin inhibitors 5083
  - varieties, Hefei-85-6 2942
- **Pteridophyta,** taxonomy 12306
- **Pteridophytes,** conferences 1032
- ***Pteris ensiformis,*** tissue culture 5658
- ***Pteris vittata,*** nucleotide sequences, ribulosebisphosphate carboxylase 8725
- ***Puccinellia***
  - chloroplast genetics, taxonomy 10411
  - genetic variation, isoenzymes 7043
  - restriction fragment length polymorphism, taxonomy 10411
  - taxonomy 7043
- ***Puccinellia howellii***
  - genetic variation, isoenzymes 7043
  - taxonomy 7043
- ***Puccinellia lemmonii,*** genetic variation, isoenzymes 2819
- ***Puccinellia nuttalliana,*** taxonomy 2819
- ***Puccinellia parishii,*** genetic variation, isoenzymes 2819
- ***Puccinia***
  - *Aegilops* 7828
  - *Hordeum,* genomes 4659
  - *Secale,* genomes 4659
  - triticale, genomes 4659
  - *Triticum,* genomes 4659
  - *Triticum aestivum* 241, 12571
- ***Puccinia antirrhini***
  - *Antirrhinum majus*
    - induced mutations 3410
    - transposable elements 3411
- ***Puccinia arachidis***
  - *Arachis hypogaea* 3243, 3248-3249, 5403, 10887, 12089
    - reviews 7367
- ***Puccinia asparagi***
  - *Asparagus officinalis*
    - combining ability 5160
    - heritability 5160
- ***Puccinia coronata***
  - *Avena nuda*
    - gene location 6866
    - genetics 6866
  - *Avena sativa* 2645, 6737, 10205
    - gene location 11404
    - genetic markers 11404
    - genetics 5936
    - linkage 12641
- ***Puccinia coronata*** *cont.*
  - *Avena sativa cont.*
    - random amplified polymorphic DNA 3692
    - restriction fragment length polymorphism 11404
  - *Avena wiestii*
    - gene location 6866
    - genetics 6866
  - *Festuca pratensis* 2785, 2801
  - *Festuca* × *Lolium* 2785
- ***Puccinia graminis***
  - *Aegilops biuncialis* 7829
  - *Aegilops cylindrica* 7829
  - *Aegilops ovata* 7829
  - *Aegilops triaristata* 7829
    - chromosome addition 12583
    - gene location 12583
  - *Aegilops triuncialis* 7829
  - *Aegilops* × *Triticum* 10138
    - chromosome addition 12583
    - gene location 12583
  - *Avena fatua* 2646
  - *Avena sativa* 2646, 4662, 6737
    - genetics 5936
    - linkage 12641
  - *Dasypyrum* × *Triticum* 12492
  - *Elymus elongatus,* chromosome translocation 8940
  - *Festuca arundinacea* 3883
  - *Hordeum vulgare* 2441, 2639, 4662, 5921
    - gene mapping 11395
    - genetics 10193
  - *Triticum aestivum* 2441, 2556, 2561, 3658, 4662, 4741, 6793, 6799-6800, 7798, 7815-7817
    - chromosome addition 8940, 12583
    - chromosome translocation 8940
    - gene location 12583
    - genetic markers 11344
    - genetics 1257, 4739-4740, 6770, 6779, 10143, 11364
    - pleiotropy 255
  - *Triticum dicoccoides* 5894
    - genetics 12573
  - *Triticum durum* 7798
    - chromosome addition 12583
    - gene location 12583
  - *Triticum monococcum* 7798
  - *Triticum timopheevii* 7816
- ***Puccinia helianthi,*** *Helianthus annuus* 3220
- ***Puccinia hordei***
  - *Hordeum,* genetics 4780
  - *Hordeum chilense* 6854
  - *Hordeum spontaneum* 2640
  - *Hordeum vulgare* 2638, 2640, 4661, 6738, 6853, 8970
- ***Puccinia horiana,*** *Dendranthema morifolium* 8694
- ***Puccinia melanocephala***
  - *Saccharum officinarum* 3263
    - genetic variance 6452
    - heritability 894
- ***Puccinia persistens,*** *Triticum aestivum* 2555
- ***Puccinia recondita***
  - *Aegilops biuncialis* 7829
  - *Aegilops cylindrica* 7829
  - *Aegilops markgrafii* 7810
  - *Aegilops ovata* 7829
  - *Aegilops triaristata* 7829
    - chromosome addition 12583
    - gene location 12583
  - *Aegilops triuncialis* 7829
  - *Aegilops* × *Triticum* 2535, 2559, 7810, 10133
    - chromosome addition 12583
    - gene location 12583
  - *Dasypyrum* × *Triticum* 12492
  - *Elymus elongatus,* chromosome translocation 8940
  - *Elymus* × *Triticum* 7796, 10133
  - *Hordeum chilense* 6854
  - Triticeae 6063
  - *Triticum aestivum* 252, 259, 2462, 2528, 2550-2551, 2554, 2557, 3653, 3661, 4661, 4745, 6795, 6799, 7798, 7814, 7816, 8937-8939, 10133, 10141, 11358
    - artificial selection 8934, 12501
    - chromosome addition 8940, 12583
- ***Puccinia recondita*** *cont.*
  - *Triticum aestivum cont.*
    - chromosome translocation 8940
    - combining ability 251
    - gene location 2562, 12501, 12583
    - gene mapping 7812
    - genetics 253-254, 256-258, 1257, 2560-2563, 3660, 4729, 4739-4740, 4743, 5897-5898, 6770, 6779, 6788, 6792, 6797, 6802, 7813, 8932, 8934, 8936, 10143-10144, 10146-10147, 11364-11365, 12572, 12574, 12576-12577
    - germplasm releases 10142
    - linkage 5896
    - random amplified polymorphic DNA 7812
    - restriction fragment length polymorphism 7812
  - *Triticum boeoticum* 7803
    - genetics 6801
  - *Triticum dicoccoides* 5894, 7803
    - genetics 12573, 12577
  - *Triticum durum* 6783, 7798, 8937
    - chromosome addition 12583
    - gene location 12583
    - genetics 2552, 12577
  - *Triticum monococcum* 7714, 7798
    - genetics 6801
  - *Triticum spelta* 11358, 12570
    - gene mapping 7812
    - genetics 12575
    - random amplified polymorphic DNA 7812
    - restriction fragment length polymorphism 7812
  - *Triticum timopheevii* 7816
- ***Puccinia sorghi***
  - *Zea mays*
    - genetics 2696, 3768
    - mutations 1468
    - pleiotropy 9150
    - transposable elements 1468, 3768
    - sweetcorn 2687, 7965
      - artificial selection 8931
- ***Puccinia striiformis***
  - *Aegilops biuncialis* 7829
  - *Aegilops cylindrica* 7829
  - *Aegilops ovata* 7829
  - *Aegilops triaristata* 7829
  - *Aegilops triuncialis* 7829
  - *Aegilops* × *Triticum* 2559
  - *Hordeum vulgare* 8969
    - gene mapping 8968
    - restriction fragment length polymorphism 8968
  - Triticeae 6063
  - *Triticum aestivum* 240, 250, 2528, 2544, 2553, 2561, 3659, 4742, 6738, 6789, 6791, 6796, 6799, 7798, 7816, 8935, 10141, 10145, 11358
    - experimental design 3662
    - genetics 2558, 4729, 5895, 6779, 6790, 6798, 8930, 8933, 10143
    - reciprocal effects 6794
  - *Triticum boeoticum* 7803
  - *Triticum dicoccoides* 5894, 7803
  - *Triticum durum* 250, 7798
  - *Triticum monococcum* 7798
  - *Triticum spelta* 11358
  - *Triticum timopheevii* 7816
- ***Puccinia substriata,*** *Pennisetum glaucum,* stability 7987
- **Pulp and paper industry,** *Leucaena leucocephala* 5566
- **Pulping**
  - *Eucalyptus regnans* 13264
  - *Pinus maximinoi* 13306
- **Pulses** (*see* Grain legumes)
- ***Punica granatum***
  - breeding 4191
  - fruits 6330
  - plant composition 6330
  - quality 6330
- **Pure lines** (*see* Inbreeding)
- **Puroindolines**
  - *Triticum aestivum*
    - gene expression 8882
    - nucleotide sequences 8882

Putrescine *N*-methyltransferase
  Nicotiana tabacum
    gene expression 10928
    nucleotide sequences 10928
Pyracantha
  colour 4405
  Erwinia amylovora 4405
  Spilocaea 4405
Pyrenochaeta glycines, *Glycine max* 2871
Pyrenopeziza brassicae
  Brassica napus
    rape 8466
      molecular genetics 6353
Pyrenophora, *Festuca pratensis, in vitro* selection 12795
Pyrenophora avenae, *Avena sativa* 11403
Pyrenophora dictyoides, *Festuca pratensis* 11647
Pyrenophora graminea
  Hordeum vulgare 4774, 6845, 12622
    genetics 12622
Pyrenophora teres
  Hordeum vulgare 2627, 6844, 8967, 10188, 12623
    genetics 2626
Pyrenophora tritici-repentis
  Aegilops squarrosa 7830
  Aegilops × Triticum 7830
  Triticum aestivum 2529, 6784, 7799, 12568
  Triticum durum 10135
Pyricularia (*see also Magnaporthe*)
  Eleusine coracana 380
Pyricularia oryzae
  Oryza rufipogon 383
  Oryza sativa 445, 1515, 1602, 1608-1610, 2767-2769, 2771
    genetics 2770
Pyrimidines, *Agrocybe aegerita,* mutations 7561
Pyrophosphatase
  Nicotiana tabacum
    gene expression 12147
    genetic transformation 12147
Pyrophosphate:fructose-6-phosphate 1-phosphotransferase
  Solanum tuberosum
    gene expression 8248
    genetic transformation 8248
Pyrroline-5-carboxylate reductase
  Arabidopsis thaliana
    gene expression 3528
    molecular genetics 3528
Pyrus
  Cacopsylla pyri 11953
  Epitrimerus pyri 5239
  fruits 8391
  genetic resources 1894, 5235, 8391
  insects 3127
  precocity 7260
  rootstocks 8394
  Venturia pirina 8396
  varieties
    Aixiang 8392
    Korla's Xiangli 5237
Pyrus betulifolia
  peroxidases 7261
  variety classification 7261
Pyrus bretschneideri
  anther culture 4130
  interspecific hybridization 5237
Pyrus calleryana
  peroxidases 7261
  variety classification 7261
Pyrus communis
  Agrobacterium tumefaciens 5241
  breeding 3124, 4118
  Cacopsylla pyri 5238, 10739-10740
  Cacopsylla pyricola 10740
  centres of origin 5237
  cold resistance 3124
  cryopreservation 740, 6294
  embryo culture 8393
  Erwinia amylovora 5238
  gamma radiation 8393
  haploidy 8393
  interspecific hybridization 5237
  pesticides 5240
  pollen germination 11952
  pollination 10736
  protoplasts 3107
Pyrus communis *cont.*
  ripening 10737
  rootstocks 5241
  somaclonal variation 3107
  stability 5238
  starch 10737
  stress 5238
  Tetranychus urticae 5240
  tissue culture 4129, 10716
  variety trials 13053
  varieties 10053
    Delmoip-Passadel 5236
    Sophia's Pride 3125
Pyrus kawakamii, tissue culture 1895
Pyrus pyrifolia
  Alternaria alternata 9581
  breeding 6293
  cryopreservation 6294
  diseases 3126
  DNA 9604
  dominance, fruits 13054
  genetic resources 6293
  genetic transformation 3108
  genetics
    fruits 8395
    quality 8395
    self incompatibility 4128
  heritability
    fruits 9582
    growth period 739, 9582
    ripening 9582
  nuclei 9604
  pollination 10735
  rootstocks 6293
  tissue culture 1895, 3108, 10738
  varieties, Gold Nijisseiki 9581
Pyrus ussuriensis, cryopreservation 6294
Pyrus × Cydonia, intergeneric hybridization 3108
Pyruvate decarboxylase
  Acorus calamus, gene expression 2229
  Nicotiana tabacum, genetic transformation 12143
Pyruvate kinase
  genetic engineering 5750
  Glycine max, nucleotide sequences 4987
Pyruvate,orthophosphate dikinase
  Oryza sativa
    gene expression 10273
    genetic transformation 10273
  Zea mays
    gene expression 10273
    genetic engineering 10273
Pythium aphanidermatum, *Zea mays* 5987
Pythium inflatum, *Zea mays* 11499
Pythium ultimum
  Gossypium arboreum 8579
  Gossypium herbaceum 8579
  Phaseolus vulgaris 2897
Qinghaosu, *Artemisia annua* 13390
Quality 11142
  Aegilops × Secale, genetics 2654
  Aegilops × Triticum, genetic markers 10115
  Agaricus bisporus 11125
  Agaricus bitorquis 11125
  Allium, techniques 7196
  Allium cepa 7197
    techniques 7196
  Arachis hypogaea 6422, 7362
    artificial selection 1990
  Asparagus officinalis 1823, 1825, 7205
  Avena sativa 1380, 2642, 4790, 10063
  Beta vulgaris, sugarbeet 8529
  Brassica campestris, sarson 839
  Brassica napus
    rape 7319
      breeding 9669
  breeding 2416
  Bromus auleticus, genetic resources 7038
  Capsicum 4094, 8357
  Capsicum annuum 1852, 10694
  Carica papaya 10814
  cereals 10063, 12475
    reports 163
  Cicer arietinum 6203
    combining ability 7130
  Citrus 1916
  Corchorus capsularis 10984
    multivariate analysis 2102
Quality *cont.*
  Corchorus olitorius, multivariate analysis 2102
  Corylus 7316
  Corylus avellana 1925
  Crambe abyssinica, genotype environment interaction 8508
  Cucumis sativus 8373
  Cyamopsis tetragonoloba, genetic variance 595
  Cyclamen 5652
  Cynara scolymus 7207
  Daucus carota 5119, 8286, 12947
  Desmodium affine 7066
  Desmodium triarticulatum 7066
  Desmodium uncinatum 7066
  Dianthus caryophyllus 5639
  Dioscorea 7182
  Diospyros kaki 10820
  Elymus hispidus
    combining ability 9261
    heritability 9261
  Fagopyrum esculentum 7013
  fatty oil plants 12027
    genetic transformation 13120
  Festuca arundinacea, heritability 9256
  fodder plants 12780
  Fragaria ananassa 10774
    combining ability 3150
  Gerbera jamesonii 13362
  Glycine max 516, 1708, 2866, 6138, 7088, 11717-11719
    artificial selection 2865
    genetics 8158, 9353
    genotype environment interaction 11720
    germplasm releases 9357-9358
    somaclonal variation 8157
  Gossypium 4335-4336, 5507, 6520, 7416, 9743, 10955, 12160
    artificial selection 9749
    combining ability 6509, 10977
    genetic variance 10977
    heritability 9745
  Gossypium arboreum, heterosis 4326
  Gossypium barbadense, heterosis 9748
  Gossypium hirsutum 940, 6520
    artificial selection 7418, 9746
    combining ability 8575, 13241
    genetic engineering 6523
    genetic markers 7415
    genetic variance 2095, 9746
    genetics 2093
    germplasm releases 9747
    heritability 8575, 9746, 13241
    heterosis 9748
    mutations 4337
  Helianthus annuus, heterosis 3219
  Hordeum spontaneum 2620
  Hordeum vulgare 163, 281, 283, 2579, 4751, 7847-7848, 7851, 8960, 8963, 10063, 12476, 12590, 12615
    books 7577
    combining ability 282, 5918
    genetics 8962
    genotype environment interaction 12618
    heterosis 282, 5918
    linkage 5849
    molecular genetics 7711
    mutations 1366, 6837, 12618
    pleiotropy 5849
    random amplified polymorphic DNA 4765
  Hordeum × Triticum, polyploidy 8869
  Humulus lupulus 6615
  Ipomoea batatas 9487, 10627, 12957
  Juglans regia 8457
  Lactuca sativa 4045, 5157
  Lathyrus sativus 493
  Leymus × Triticum 1316
  Lycopersicon chmielewskii
    chromosome addition 8335
    gene mapping 8335
  Lycopersicon esculentum 5181, 6266, 6270, 7227, 13010
    chromosome addition 8335
    gene expression 11887
    gene mapping 8335
    genetic engineering 4070
    genetic transformation 11887

Quality *cont.*
  Lycopersicon esculentum cont.
    heterosis 10673
  Malus pumila 737, 1892, 5231, 8383-8385, 9579-9580
    mathematics 11951
  Mangifera indica 5324
  Manihot esculenta 6245, 12951
  Musa 8441-8442
  Nephelium lappaceum 9632
  Nicotiana tabacum 5457-5458
  Olea europaea 12074
  Opuntia 812
  Oryza sativa 436, 1582-1583, 1585-1587, 2757, 3840, 3844, 4879, 6990, 8031, 8033, 9225, 10380, 11553, 11578, 11596, 11598-11599, 12747-12748
    genetic markers 8032
    genetic variance 6047
    germplasm releases 9227
    heterosis 404, 6047
    induced mutations 6989
    nucleocytoplasmic interaction 3841
    restriction fragment length polymorphism 8032
  Pennisetum 6734
  Pennisetum glaucum 6960
    stability 7987
  Pennisetum purpureum 6960
  Phaseolus vulgaris 1726, 6165
    artificial selection 539
    genotype environment interaction 539
  Phleum pratense 2813
    genotype environment interaction 1644
  Pinus sylvestris 6551
  Piper betle 13393
  Pisum sativum 555, 1740
  Prunus, plums 3134, 3137
  Prunus armeniaca, clonal variation 743
  Prunus cerasus 10750, 13063-13064
  Prunus persica 5262-5263
    multivariate analysis 7280
  Prunus serotina 7274
  Punica granatum 6330
  Pyrus pyrifolia, genetics 8395
  Raphanus sativus 8296
  Ribes nigrum 5269
  Rosa 4411, 12241
  Rubus idaeus 9592-9593
  Saccharum, somaclonal variation 7375
  Saccharum officinarum 2013-2014, 2016, 5418, 12109
  Saccharum robustum
    backcrossing 5415
    heritability 5415
  Secale cereale 163, 1386, 4660, 12646
    genetics 2654
  Secale × *Triticum,* chromosome translocation 11343
  Solanum phureja 4001
  Solanum sessiliflorum, heritability 5331
  Solanum tuberosum 4001, 5108, 9468-9470, 10586, 11827-11828
    artificial selection 2970-2971, 12939
    heritability 8253
    somaclonal variation 1792
  Sorghum bicolor 3774, 4865, 6734, 6939, 10309, 12474
    gene expression 9174
    genotype environment interaction 359
  triticale 4660, 4803-4804, 4806, 6741, 7875, 8995, 10212
    chromosome translocation 10214
  triticale × *Triticum,* chromosome translocation 8886
  Triticum, genetic markers 10115
  Triticum aestivum 163, 227-228, 230, 1264, 1296, 1317-1318, 2503-2504, 2506, 4660, 4690, 4711, 5891, 6741, 6760, 7779-7780, 8908-8911, 10063, 10117, 11339-11341, 11358, 11368, 12476, 12484, 12544-12546, 12549, 12561
    artificial selection 1313, 2505, 3634, 11342
    chromosome translocation 8886, 11343
    combining ability 10116
    epistasis 7775

Quality *cont.*
  Triticum aestivum cont.
    genetic markers 1314, 11344, 12548
    genetics 233, 1319, 2490, 2654
    genotype environment interaction 3631, 11342
    genotype mixtures 7782
    germplasm releases 3630
    heritability 3634, 10069
    linkage 5849
    molecular genetics 7711
    multivariate analysis 4714
    pleiotropy 5849
    polymerase chain reaction 12548
    somaclonal variation 10073
  Triticum durum 163, 231-232, 1312, 1318, 4715, 6760, 10117, 11339
    artificial selection 3629
    chromosome substitution 12547
    genetic markers 1315, 6759
    genetics 3635
    stability 1311, 12543
    substitution lines 12547
  Triticum spelta 11358
  Vaccinium angustifolium, combining ability 3146
  Vaccinium ashei 13077
  Vaccinium corymbosum 13077
    combining ability 3146
  Vicia faba 529
  Vitis 4160
  Vitis vinifera 5293-5294, 7292, 10794, 11998
  Zea 6734
  Zea mays 340, 351, 1450-1452, 2677, 5980, 6734, 11491, 11501, 12474
    artificial selection 11473
    combining ability 5977
    genetics 339, 1454, 10278
    modifiers 339
    mutations 1454, 5977, 10278
    restriction fragment length polymorphism 7943, 11473
    variety trials 9141
    baby corn 10279
    babycorn 3755
    popcorn 9134
  Ziziphus mauritiana 6333
Quantitative genetics 2367-2368, 4610, 4623, 11233
  books 4523
  Solanum tuberosum, mathematics 11807
  statistics 90
Quantitative traits
  artificial selection 12335
  Brassica oleracea
    broccoli, genetics 4028
    cabbages, genetics 4028
  gene mapping 6661, 8828
    multivariate analysis 6685
  genetic markers 5790, 8828, 11197, 12427
    mathematics 4621
  genetic variance, statistics 2370-2371
  genetics 12428
  Glycine max
    epistasis 11713
    genetics 2858
    linkage 2859
    restriction fragment length polymorphism 2858-2859, 11713
  heritability, statistics 2371
  Hordeum vulgare
    gene mapping 4770
    genetic markers 12607
    genotype environment interaction 4770
    linkage 12607
    random amplified polymorphic DNA 4765
  linkage 4617, 4619-4620, 5790, 12427
    experimental design 7665
    mathematics 4621
  Lycopersicon esculentum
    chromosome addition 13009
    epistasis 11891
    genetic markers 11891
    genetics 3056
    restriction fragment length polymorphism 3056, 13009

Quantitative traits *cont.*
  Lycopersicon pennellii
    chromosome addition 13009
    genetics 3056
    restriction fragment length polymorphism 3056, 13009
  Lycopersicon pimpinellifolium
    epistasis 11891
    genetic markers 11891
  mutations 8848
  Raphanus raphanistrum, genetic variation 9495
  restriction fragment length polymorphism, statistics 2370
  selection 8838, 8848
  Solanum berthaultii, restriction fragment length polymorphism 8282
  Solanum chacoense, genetic variation 7160
  Solanum phureja, genetic variation 7160
  Solanum tuberosum
    genetic variation 7160
    restriction fragment length polymorphism 8282, 11805
  Triticum aestivum, genotype environment interaction 10120
  Zea, genetic markers 2684
  Zea mays
    gene mapping 11442
    genetic markers 2684, 9051
    genotype environment interaction 9051
    heritability 9051
    linkage 7936
    restriction fragment length polymorphism 7936, 9051
  Zea mexicana, genetic markers 2684
Quassia simarouba, tissue culture 13286
Quercus, chemotaxonomy 7445
Quercus acutissima
  embryo culture 8595
  protoplasts 12185
  tissue culture 4349, 12185
Quercus agrifolia
  chemotaxonomy 2115-2116
  fatty acids 2116
  interspecific hybridization 2115-2116
  steroids 2115
Quercus cerris
  anatomy 7444
  tissue culture 7444
Quercus douglasii
  maternal effects
    seedlings 10997
    seeds 10997
Quercus ellipsoidalis
  genetic variation 6536
    isoenzymes 6535
  inbreeding 6535
  interspecific hybridization 6535-6536
Quercus faginea, cryopreservation 973
Quercus ilex
  breeding 10052
  chemotaxonomy 6537
  genetic resources 10052
  interspecific hybridization 6537
Quercus laevis
  genetic variation 8593
    isoenzymes 8594
  population genetics 8593
Quercus macrocarpa
  gene flow 9784
  polymorphism, isoenzymes 9784
Quercus margaretta
  genetic variation 8593
  population genetics 8593
Quercus petraea
  chloroplast genetics 8592
    evolution 8596
  gene flow 8592
    mathematics 8845
  heritability, wood properties 7443
  tissue culture, reviews 13268
Quercus pubescens
  chloroplast genetics 8592
  gene flow 8592
Quercus pyrenaica
  chloroplast genetics 8592
  gene flow 8592
Quercus robur
  anatomy 7444

- ***Quercus robur*** *cont.*
  - chloroplast genetics 8592
    - evolution 8596
  - gene flow 8592
    - mathematics 8845
  - heritability, wood properties 7443
  - population genetics 6692
  - tissue culture 7444, 10998
    - reviews 13268
- ***Quercus rotundifolia***
  - chemotaxonomy 6537
  - interspecific hybridization 6537
- ***Quercus rubra***
  - anatomy 7444
  - genetic variation 6536
    - isoenzymes 6535
  - inbreeding 6535
  - interspecific hybridization 6535-6536
  - tissue culture 7444
- ***Quercus suber***
  - genetic variation 10996
  - tissue culture 2114
- ***Quercus virginiana,*** DNA 8865
- ***Quercus wislizenii***
  - chemotaxonomy 2115-2116
  - fatty acids 2116
  - interspecific hybridization 2115-2116
  - steroids 2115
- **Quinclorac,** *Triticum aestivum* 7821
- **Quintozene**
  - *Festuca pratensis* 7018
  - fodder plants 7018
  - grasses 7018
- **Radiation** 1186, 2378
- (*see also* Gamma radiation; Lasers; Neutron radiation; Ultraviolet radiation)
  - *Allium fistulosum* 2378
  - *Arabidopsis thaliana* 10015
  - *Brassica juncea* 5359
  - *Dactylis glomerata* 3873
  - *Dendranthema* 990
  - *Glycine max* 10449
  - *Hyacinthus orientalis* 990
  - *Mammillaria* 990
  - *Pinus sylvestris* 3354
  - *Prunus avium* 5250
  - *Triticum aestivum* 11313
- **Radioactive nuclides** (*see* Radionuclides)
- **Radionuclides**
  - *Brassica juncea* 5359
  - *Hordeum vulgare* 8965
- ***Ramulispora sorghi***
  - *Sorghum bicolor* 6946, 10310
    - combining ability 1486
    - heterosis 1486
- ***Ramulispora sorghicola***
  - *Sorghum bicolor*
    - combining ability 1486
    - heterosis 1486
- **Random amplified polymorphic DNA** 1129, 2337-2338, 4557, 9992
  - *Acer rubrum,* variety classification 13332
  - *Acer saccharinum,* variety classification 13332
  - *Aegilops squarrosa, Heterodera avenae* 7831
  - *Agaricus bisporus* 6618
  - *Arabidopsis thaliana* 64
  - *Arachis hypogaea* 6417
  - *Avena sativa*
    - *Puccinia coronata* 3692
    - variety classification 12633
  - *Avena sterilis,* variety classification 3689
  - *Beta vulgaris,* sugarbeet, cytoplasmic male sterility 13186
  - *Brassica* 13124
  - *Brassica campestris,* turnip rape, variety classification 12034
  - *Brassica juncea* 8471
  - *Brassica napus*
    - rape 8470
      - cytoplasmic male sterility 13132
      - variety classification 4214
  - *Brassica oleracea*
    - broccoli 8304
    - cabbages 8304
    - cauliflowers 8304
      - hybrid seed production 7198
  - *Buchloe dactyloides,* genetic distance 2809
  - *Capsicum annuum* 5199
- **Random amplified polymorphic DNA** *cont.*
  - *Capsicum chinense* 5199
  - *Chamaecytisus proliferus* 8125
  - *Citrullus lanatus* 9535
  - *Citrus* 5316
  - *Clusia alata,* taxonomy 3351
  - *Clusia minor,* taxonomy 3351
  - *Clusia multiflora,* taxonomy 3351
  - *Coffea* 8533
    - taxonomy 904
  - crops 2343
  - *Datisca glomerata* 11184
  - *Daucus carota* 9480
  - *Dendranthema grandiflora* 3390, 4414
  - development 5761
  - *Echinochloa,* evolution 12704
  - economics 2341
  - *Elymus farctus* 2472
  - *Elymus* × *Triticum* 2472, 7755
  - *Eucalyptus grandis* 13261
  - *Fagopyrum esculentum* 3865
  - *Fagopyrum tataricum* 3865
  - forest trees 7437
  - *Glycine max* 6125, 12831
    - *Heterodera glycines* 10492
    - variety classification 11698
  - *Glycine soja,* variety classification 11698
  - *Gossypium herbaceum* 10657
  - *Gossypium hirsutum* 10657
  - *Helianthus annuus* 11184
  - *Hordeum,* taxonomy 6838
  - *Hordeum bulbosum, Erysiphe graminis* 2634
  - *Hordeum spontaneum,* genetic variation 269
  - *Hordeum vulgare* 7725, 12383
    - *Erysiphe graminis* 2634
    - growth period 6823
    - haploidy 3674
    - height 6823
    - quality 4765
    - quantitative traits 4765
    - *Rhynchosporium secalis* 1370
  - *Ipomoea batatas,* variety classification 11849
  - *Iris,* evolution 8704
  - *Iris brevicaulis* 11078
  - *Iris fulva* 11078
  - *Iris hexagona* 11078
  - *Iris nelsonii,* evolution 8704
  - *Juniperus excelsa* 8657
  - *Juniperus procera* 8657
  - *Lactuca sativa* 12981
    - *Bremia lactucae* 3051
  - *Linum usitatissimum,* flax 12166
  - *Lotus,* evolution 11688
  - *Lotus corniculatus,* evolution 11688
  - *Lycopersicon* 10657, 10683
    - variety classification 12998
  - *Lycopersicon esculentum* 9535, 12995
    - *Fulvia fulva* 3070
    - *Meloidogyne* 7234
    - variety classification 12998
  - *Lycopersicon pennellii* 12995
  - *Manihot caerulescens* 10618
  - *Manihot esculenta* 10618
  - *Manihot glaziovii* 10618
  - *Medicago sativa* 3911, 7048
  - molecular genetics 5753
  - *Musa,* genomes 8437
  - *Nicotiana* 7393
  - *Oryza sativa* 3811
    - genetic markers 11564
    - *Orseolia oryzae* 7012
  - *Panicum* 11531
  - *Petunia* 13367
  - *Petunia hybrida* 13367
  - *Phaseolus vulgaris* 1763
    - bean common mosaic potyvirus 11749
    - *Colletotrichum lindemuthianum* 12883
    - *Uromyces appendiculatus* 11748
  - *Picea abies* 12219
  - *Pinus elliottii, Cronartium fusiforme* 8632
  - *Pisum sativum* 8199
    - *Erysiphe pisi* 12902
  - *Poa pratensis,* apomixis 8064
  - *Populus*
    - taxonomy 8604
- **Random amplified polymorphic DNA** *cont.*
  - *Populus cont.*
    - variety classification 8604
  - *Populus grandidentata,* variety classification 8601
  - *Populus tremuloides,* variety classification 8601
  - *Prunus persica*
    - isoenzymes 7279
    - morphology 7279
  - *Raphanus sativus* 13124
  - reviews 4578
  - *Rhododendron* 13333-13334
  - *Rosa,* variety classification 4409
  - *Rubus idaeus,* variety classification 8418, 13071
  - *Secale* 11406
  - *Secale cereale* 11406
    - variety classification 11407
  - *Solanum brevidens,* recombination 12933
  - *Solanum goniocalyx* 1781
  - *Solanum phureja* 1781
  - *Solanum tuberosum* 1781, 2343, 8237
    - variety classification 3997
  - *Sorghum bicolor* 6917, 7975
    - *Acremonium strictum* 6948
    - *Peronosclerospora sorghi* 6948
    - *Sphacelotheca reiliana* 6948
  - *Sorghum propinquum* 7975
  - *Syringa* 3372
  - techniques 2341, 12383
  - temperate fruits 9566
  - *Triticum* 6744
  - *Triticum aestivum* 2472, 4677, 5859, 7725, 7731
    - *Puccinia recondita* 7812
  - *Triticum boeoticum* 5859
  - *Triticum dicoccoides* 7731
  - *Triticum durum* 7731
  - *Triticum monococcum* 5859
  - *Triticum spelta, Puccinia recondita* 7812
  - *Triticum urartu* 5859
  - *Vaccinium ashei,* genetic distance 4147
  - *Vaccinium darrowii* 7284
  - *Vaccinium elliottii* 7284
  - *Vaccinium macrocarpon,* variety classification 13076
  - *Vetiveria zizanioides,* variety classification 9938
  - *Vicia pisiformis* 12819
  - *Vigna angularis* 1763
  - *Vigna unguiculata* 1763
  - *Vitis* 4158
    - variety classification 4157
  - *Vitis vinifera* 12000
    - variety classification 4159
  - *Yucca baccata* 11184
  - *Yucca schidigera* 11184
  - *Zea mays* 7890, 9015-9017, 10226, 11434
    - *Gibberella zeae* 3767
- **Ranunculaceae,** molecular genetics, taxonomy 13364
- ***Ranunculus asiaticus,*** tissue culture 7514
- ***Ranunculus auricomus,*** genetics, apomixis 1213
- ***Raphanus raphanistrum***
  - genetic variation, quantitative traits 9495
  - *Leptosphaeria maculans* 12037
  - paternal effects, fertility 10630
- ***Raphanus sativus***
  - amino acids 629
  - anthers 829
  - breeding 5084, 6247
    - reports 1071
  - chromosome addition
    - bolting 3993
    - roots 3993
  - cytology 829
  - cytoplasmic male sterility 629-630, 5136
    - reviews 11864
  - cytotaxonomy 829
  - fertilization 1810, 1944
  - gene expression
    - adenosinetriphosphatase 5136
    - DNA binding proteins 9493
    - ribosomal DNA 9493
    - seeds 1812
  - gene mapping
    - DNA binding proteins 9493
    - ribosomal DNA 9493

Raphanus sativus *cont.*
  genetic resources 6247
  genetic transformation 5990
  genetics
    benzyladenine 3032
    growth regulators 3032
    roots 3033
  glutamic acid 629
  immunology
    ferredoxin-NADP$^+$oxidoreductase 1811
    leaves 1811
    roots 1811
  male sterility, reviews 11864
  mitochondrial genetics 9996
    cytoplasmic male sterility 8295, 12962
  natural selection, flowers 12963
  nitrates 9494
  nitrogen 9494
  nucleotide sequences, adenosinetriphosphatase 5136
  nutrients 9494
  penetrance
    benzyladenine 3032
    growth regulators 3032
  plant disorders 8296
  pollen competition 1810, 1944
  pollen germination 1810, 10629
  polymerase chain reaction, cytoplasmic male sterility 8295
  proline 629
  quality 8296
  random amplified polymorphic DNA 13124
  restriction fragment length polymorphism 13124
  sexual reproduction 11853
  tissue culture 3032-3033
  variety trials 8294
  wide hybridization 628
  varieties, Pusa Desi 627
Raphanus × _Brassica_, intergeneric hybridization 828, 840, 3993, 12037
Raphanus (×) _Brassica_, protoplast fusion 5357
Raspberry ringspot nepovirus, *Vitis vinifera* 784
Rastrococcus invadens, *Mangifera indica* 12017
Ratooning
  Oryza sativa 1547, 3821, 6026
  Saccharum officinarum 880-881, 6441
Rauhiella silvana, taxonomy 1030
Rauvolfia caffra, tissue culture 5666
Rauvolfia mannii
  molecular genetics, strictosidine synthase 12286
  nucleotide sequences, strictosidine synthase 12286
Rauvolfia serpentina
  genetic transformation 6601
  molecular genetics, strictosidine synthase 12286
  nucleotide sequences, strictosidine synthase 12286
  tissue culture 1048
Receptor-like protein kinases
  Petunia inflata
    gene expression 11077
    nucleotide sequences 11077
Recessiveness (*see* Dominance)
Reciprocal effects
  Beta vulgaris, sugarbeet 896
  Brassica juncea, yield components 834
  Cocos nucifera 6383
  Elymus × *Triticum,* compatibility 5861
  Picea abies
    altitude 13313
    development 13313
  Sinapis alba 828
  Triticum aestivum
    anther culture 2500
    Puccinia striiformis 6794
  Vitis vinifera 13085
  Zea mays, lodging 6891
Recombinase, *Nicotiana tabacum,* genetic transformation 7390
Recombination 1192, 3536, 11239
  Arabidopsis thaliana
    acetolactate synthase 7656
Recombination *cont.*
  Arabidopsis thaliana cont.
    herbicides 7656
  Brassica juncea
    chlorophyll 8476
    chlorosis 8476
  Brassica oxyrrhina
    chlorophyll 8476
    chlorosis 8476
  computer simulation 12424
  crops 12438
  evolution 6689, 12426
  Lycopersicon esculentum 1839
  mathematics 2366, 4610
  models 12432
  Nicotiana bigelovii, cauliflower mosaic caulimovirus 4309
  Nicotiana plumbaginifolia, genetic transformation 4294
  Nicotiana tabacum 921, 8546
    genetic transformation 13212
  Petunia hybrida, mitochondrial genetics 1018
  Pinus pinaster 12212
  reviews 88
  selection 4611
  sex chromosomes 8826
  Solanum brevidens
    random amplified polymorphic DNA 12933
    restriction fragment length polymorphism 12933
  statistics 4598
  Triticum aestivum 6746
    chromosome substitution 7749
    mitochondrial genetics 6743
  Triticum monococcum, chromosome substitution 7749
  Zea diploperennis, alcohol dehydrogenase 4835
  Zea luxurians, alcohol dehydrogenase 4835
  Zea mays 2678, 10243
    alcohol dehydrogenase 4835
Reducing sugars
  Solanum phureja 8255
  Solanum tuberosum 8255
    genetics 1791
  triticale 4798
Regenerative ability
  bamboos 12283
  Brassica campestris, turnip rape 1958
  Brassica napus, rape 837, 1958
  Brassica oleracea 11866
  Cucumis melo, genetics 11904
  Eleusine coracana, somaclonal variation 10332
  Fragaria ananassa 7290
  Gerbera jamesonii 5636
  Helianthus annuus 1240
  Hordeum vulgare 10175
  Lycopersicon esculentum 1240, 11885
  Malus pumila, somaclonal variation 13049
  Medicago falcata 4944
  Medicago sativa 475
  Medicago varia 4944
  medicinal plants 12283
  Onobrychis viciifolia 8129
  ornamental plants 12283
  Oryza granulata 435
  Oryza sativa 1575, 8028
    heritability 4891
  Petunia hybrida, genetics 1020
  Rosa hybrida 5624
  Rubus idaeus 10765
  Rubus ursinus 10765
  Saccharum 12108
  Sinningia, genetic transformation 12283
  Solanum chacoense
    genetics 12937
    heritability 12937
  triticale, genetics 4801
  Triticum 11338
  Triticum aestivum 11338
  Triticum durum 11338
  Vaccinium corymbosum 7285, 10770
  Vicia faba 1240
  Vitis 5290
  Vitis vinifera 13086
  Zea mays 10276
Regenerative ability *cont.*
  Zea mays cont.
    combining ability 10275
    genetic variance 10275
Rehmannia glutinosa, tissue culture 7545, 12289
Renanthera imschootiana, tissue culture 7528
Repetitive DNA
  natural selection 11174
  Oryza sativa, induced mutations 8001
  Secale cereale
    molecular genetics 12642
    nucleotide sequences 12642
Replicase
  Nicotiana benthamiana, genetic transformation 5475
  Nicotiana tabacum, genetic transformation 5475
Reports
  Allium, genetic resources 6248
  Austria, Federal Institute for Plant Production 134, 136, 139, 152-153, 163, 165, 301, 305, 600, 631, 847, 898, 1070
  Avena, genetic resources 6857
  Beta vulgaris
    fodder beet, variety trials 631
    sugarbeet, breeding 898
  Capsicum annuum, breeding 1071
  cereals
    breeding 153, 2247, 4513
    gene banks 152
    genetic resources 134, 4513
    plant composition 163
    quality 163
    variety trials 153
  crops
    breeding 1070, 5686, 6621
    genetic resources 134
    variety trials 5688
  Cucumis melo, breeding 1071
  Cynara scolymus, breeding 1071
  Daucus carota, breeding 1071
  Denmark, National Committee for Plant Production 5688
  European Brewery Convention 6622
  fatty oil plants, variety trials 139
  Finland, Foundation for Forest Tree Breeding 6530-6533, 6551, 7564
  fodder plants, breeding 5686
  Fragaria ananassa, breeding 1071
  France, Avignon-Montfavet Horticultural Breeding Station 1071
  Germany
    Federal Institute for Breeding Research in Viticulture and Horticulture, Siebeldingen 1069
    Federal Institute for Breeding Studies in Viticulture and Horticulture in Siebeldingen/Palatinate 6621
  grain legumes, variety trials 139
  herbage crops, variety trials 139
  India
    Indian Agricultural Research Institute 2249
    National Bureau of Plant Genetic Resources 1068, 1072
    Sugarcane Breeding Institute 2248, 7566
  International Board for Plant Genetic Resources 3440
  International Center for Agricultural Research in the Dry Areas, Cereal Improvement Program 4513, 5687
  International Network for the Improvement of Banana and Plantain 7563
  International Rice Research Institute 8750
  Italy, Experimental Institute for Cereal Cultivation 2247
  Japan, National Institute of Agrobiological Resources 2246
  Lycopersicon esculentum, breeding 1071
  Netherlands, Centre for Plant Breeding and Reproduction Research 5686
  ornamental plants, breeding 1069, 5686, 6621
  Pinus elliottii
    breeding 4511-4512
    Cronartium fusiforme 4512

Reports *cont.*
- *Pinus taeda,* breeding 4511
- *Prunus,* genetic resources 7265
- *Raphanus sativus,* breeding 1071
- *Solanum melongena,* breeding 1071
- *Solanum tuberosum,* breeding 600
- Taiwan, Taiwan Agricultural Research Institute 3441
- temperate fruits, breeding 1069, 5686, 6621
- *Triticum durum,* breeding 136
- UK
  - AFRC Institute of Grassland and Environmental Research 11126
  - AFRC Institute of Plant Science Research and John Innes Institute 5773-5774, 5786, 5799-5800, 5834, 5841, 5843, 5860, 5892, 5923, 6168, 6173, 6177, 6183, 6193, 6243, 6339, 6341, 6344, 6349, 6353-6354, 6502, 6763, 7109, 7231, 7565
- USA
  - Cooperative Forest Genetics Research Program 4512, 8751
  - North Carolina State University-Industry Cooperative Tree Improvement Program 4511
  - Pacific Northwest Tree Improvement Research Cooperative 12307
- vegetables, breeding 1069, 2249, 5686, 6621
- *Vicia faba*
  - breeding 136
  - gene banks 152
- *Vitis vinifera,* breeding 1069, 6621
- *Zea mays,* breeding 301

Reproduction
- *Agrocybe aegerita,* genetics 4498
- *Betula glandulosa* 5523
- *Coprinus bilanatus*
  - gene expression 4500
  - genetic transformation 4500
- *Coprinus cinereus*
  - gene expression 4500
  - genetic engineering 4500
- forest trees 4347
- *Ganoderma lucidum* 4497
- *Polemonium viscosum* 8684
- *Trichomanes speciosum* 1032
- *Volvariella volvacea* 4499

Resins
- multivariate analysis 7482
- *Parthenium argentatum* 5515
- *Pinus brutia* 2137
- *Pinus elliottii* 7482

Respiration (*see also* Photorespiration)
- artificial selection, reviews 7
- *Beta vulgaris,* sugarbeet, artificial selection 13187
- *Lolium perenne,* artificial selection 4918
- mathematics 10254
- *Phaseolus vulgaris* 5023, 5032-5033
- *Prunus avium* 4137
- *Sequoia sempervirens* 9828, 13325
- *Triticum aestivum* 2516
- *Zea mays* 10254
  - sweetcorn 4826

Restriction fragment length polymorphism 1129, 1137, 2338, 2344-2345, 9993
- *Aegilops* 7726, 8881
  - genomes 1286, 2571
- *Aegilops longissima* 7695
- *Aegilops squarrosa* 1348, 6813-6814
  - *Heterodera avenae* 7793, 7831
- *Aegilops triuncialis,* genomes 2571
- *Agrostis stolonifera,* taxonomy 8062
- *Allium schoenoprasum,* cytoplasmic male sterility 5143
- *Arabidopsis thaliana* 2351
  - ecotypes 2354
  - genetic distance 2354
  - glucosinolates 6349
  - growth period 7649
- *Arachis cardenasii* 5401
- *Arachis hypogaea* 5401, 6417
- *Arachis stenosperma* 5401
- *Avena byzantina* 3687
- *Avena sativa* 7865
  - evolution 6861
  - *Puccinia coronata* 11404

Restriction fragment length polymorphism *cont.*
- *Avena sterilis* 5932
- *Barbarea* (×) *Brassica* 8472
- *Beta maritima,* bolting 13189
- *Beta vulgaris*
  - bolting 13189
  - sugarbeet 11181, 12113
    - beet necrotic yellow vein furovirus 3269
    - monogerm seeds 3269
    - seedlings 3269
- *Brachypodium,* taxonomy 9277
- *Brachypodium sylvaticum* 11282
- *Brassica* 13124
  - genomes 3195
- *Brassica campestris* 6250
- *Brassica juncea,* somaclonal variation 826
- *Brassica napus* 13125
  - rape 6341, 8470, 9661
    - cytoplasmic male sterility 4211
    - glucosinolates 6349
- *Brassica oleracea* 6250
  - broccoli 4028, 8304, 9517
    - *Plasmodiophora brassicae* 3047
  - cabbages 4028, 8304, 9517
    - self incompatibility 10641
  - cauliflowers 8304, 9517
    - *Plasmodiophora brassicae* 3047
- *Brassica pekinensis,* self incompatibility 10641
- *Capsicum annuum* 7235
- *Capsicum baccatum* 7235
- *Catabrosa aquatica,* taxonomy 10411
- cereals 11282
- *Cichorium,* taxonomy 9532
- *Citrus* 4177, 5316, 9626
- *Columnea,* taxonomy 13345
- conifers 12211
- crops 2343
  - taxonomy 11489
- *Dasypyrum villosum* 7695
- *Daucus carota* 9480
- *Dendranthema grandiflora* 12249
- development 5761
- *Dioscorea,* taxonomy 626
- *Dioscorea cayenensis,* taxonomy 626
- *Dioscorea rotundata,* taxonomy 626
- diseases 4561, 5732
- *Duboisia leichhardtii* 2218
- *Duboisia myoporoides* 2218
- *Eccoilopus,* evolution 7374
- economics 2341
- *Elaeis guineensis* 13147
- *Elaeis oleifera* 13147
- *Erianthus,* evolution 7374
- *Eruca vesicaria* 9694
- *Eucalyptus citriodora* 5527
- *Eucalyptus grandis* 5527
- *Eucalyptus urophylla* 5527
- *Fagus sylvatica* 8587
- *Festuca,* evolution 12793
- *Festuca arundinacea* 7027
- forest trees 7437
- *Fortunella* 9626
- genetic distance 12379
- *Glycine,* linkage 12826
- *Glycine max* 508, 2853, 6124, 10469
  - chloroplasts 6129
  - *Heterodera glycines* 6144, 10492
  - inbreeding 6121
  - isoenzymes 4989
  - mitochondria 6129
  - nodulation 10468
  - quantitative traits 2858-2859, 11713
  - soybean mosaic potyvirus 8164
  - urease 4989
  - variety classification 11698
- *Glycine soja* 508
  - variety classification 11698
- *Glycine tomentella* 12837
- grasses
  - evolution 11623
  - taxonomy 8062, 11623
- heat shock, reviews 2305
- *Helianthus annuus,* cytoplasmic male sterility 12059
- *Hevea brasiliensis* 7432, 9763
- *Hordeum*
  - α-amylase 8957

Restriction fragment length polymorphism *cont.*
- *Hordeum cont.*
  - taxonomy 12619
- *Hordeum spontaneum* 7837, 7840
  - α-amylase 8957
- *Hordeum vulgare* 154, 270, 1345, 1348, 2586-2587, 4753, 4795, 6728, 6853, 7695, 7697, 7725, 7837, 10173, 12463
  - aminopeptidases 7836
  - α-amylase 7836, 8956-8957
  - *Erysiphe graminis* 12625-12626
  - esterases 7836
  - glucose-1-phosphate adenylyltransferase 6834
  - growth period 6823
  - haploidy 3674
  - height 6823
  - hordein 7836
  - ligules 12603
  - nomenclature 2580
  - *Puccinia striiformis* 8968
  - water soluble proteins 7836
- *Ipomoea,* taxonomy 3029
- *Lactuca sativa* 12981
- *Lathyrus,* ribosomal DNA 6097
- *Leucaena leucocephala,* ribosomal DNA 13280
- *Leymus,* taxonomy 12619
- *Lolium perenne,* evolution 12793
- *Lycopersicon chilense,* tomato yellow leaf curl bigeminivirus 9553
- *Lycopersicon esculentum* 668, 11185
  - *Fulvia fulva* 3070-3071, 13018
  - *Meloidogyne* 682
  - polyploidy 13000
  - quantitative traits 3056, 13009
  - tomato yellow leaf curl bigeminivirus 9553
  - transposable elements 3054
  - yield components 13009
- *Lycopersicon pennellii*
  - chromosomes 7216
  - quantitative traits 3056, 13009
  - yield components 13009
- *Malus pumila* 4123
- *Manihot* 8287
  - evolution 3021
- *Manihot aesculifolia* 3020
- *Manihot caerulescens* 10618
- *Manihot esculenta* 3020, 8287, 10618
- *Manihot glaziovii* 10618
- *Medicago* 9281
- *Medicago sativa* 7048, 9282
  - plant introduction 6076
- *Miscanthus,* evolution 7374
- *Narenga,* evolution 7374
- *Nesphostylis,* taxonomy 12925
- *Nicotiana glutinosa* 8550
- *Nicotiana tabacum* 8550
- *Oryza*
  - genomes 2729
  - variety classification 11574
- *Oryza australiensis*
  - growth period 8057
  - *Nilaparvata lugens* 8057
- *Oryza latifolia* 12722
- *Oryza officinalis* 12716
  - genomes 2729
- *Oryza sativa* 154, 401, 1526, 1530, 3571, 6019, 6965, 7693, 9202, 9204, 11185, 11558, 12716, 12722-12723
  - aldehyde-lyases 12724
  - cytoplasmic male sterility 3822
  - fertility 3815
  - growth period 8057
  - height 417, 12740
  - isoenzymes 6031
  - *Magnaporthe grisea* 7002, 12768
  - *Nilaparvata lugens* 8057
  - *Orseolia oryzae* 7012
  - oryzacystatin 12724
  - quality 8032
  - shedding 417
  - variety classification 11574
  - wide hybridization 3815
- *Oryza* × *Triticum* 7704
- *Passiflora* 12020
- *Passiflora edulis* 12020
- *Paulownia* 12196

Restriction fragment length polymorphism *cont.*

- *Paulownia taiwaniana* 12196
- *Pennisetum glaucum,* cytoplasmic male sterility 11536, 12701
- *Pennisetum purpureum* 11534
- *Persea americana* 9630
- pests 5732
- *Phaseolus*
  - linkage 12826
  - taxonomy 5031
- *Phaseolus coccineus*
  - cytoplasmic male sterility 11744
  - polygalacturonase-inhibiting protein 5022
- *Phaseolus vulgaris*
  - *Colletotrichum lindemuthianum* 12883
  - cytoplasmic male sterility 11744
  - domestication 8176
  - polygalacturonase-inhibiting protein 5022
  - *Rhizobium* 2894
  - *Xanthomonas campestris* 2894
- *Phippsia algida,* taxonomy 10411
- *Picea engelmannii,* interspecific hybridization 13309
- *Picea glauca,* interspecific hybridization 13309
- *Picea sitchensis,* interspecific hybridization 13309
- *Pinus* 5581
- *Pinus attenuata* 13293
- *Pinus banksiana* 9813
- *Pinus contorta* 9813
- *Pinus muricata* 13293
- *Pinus radiata* 13293
- *Pinus sylvestris,* nucleolus organizer 7480
- *Pinus taeda* 12210-12211
- *Pisum sativum* 8199
  - *Erysiphe pisi* 12902
- *Pleurotus cornucopiae* 13403
- *Poncirus* 9626
- *Populus* 8587
  - *Pemphigus betae* 975
- *Populus grandidentata,* variety classification 8601
- *Populus tremuloides*
  - isoenzymes 7446
  - variety classification 8601
- *Prunus,* cherries 3140
- *Prunus persica* 4140
- *Psathyrostachys,* taxonomy 12619
- *Puccinellia,* taxonomy 10411
- quantitative traits, statistics 2370
- *Raphanus sativus* 13124
- *Rubus,* raspberries, variety classification 11986
- Saccharinae, evolution 13178
- *Saccharum,* evolution 7374
- *Saccharum barberi* 879
- *Saccharum officinarum* 879
  - evolution 13178
- *Saccharum robustum* 879
- *Saccharum sinense* 879
- *Saccharum spontaneum* 879, 3259, 8512
- *Sclerochloa dura,* taxonomy 10411
- *Sclerostachya,* evolution 7374
- *Secale* 11406
- *Secale cereale* 4795, 5841, 6728, 10207, 11405-11406
  - accessory chromosomes 2648
- *Senecio jacobaea* 5629
- *Senecio nemorensis* 5629
- *Sesleria insularis,* taxonomy 10411
- *Solanum,* evolution 8256
- *Solanum acaule,* taxonomy 12941
- *Solanum berthaultii*
  - insects 8282
  - *Leptinotarsa decemlineata* 8282
  - quantitative traits 8282
- *Solanum brevidens,* recombination 12933
- *Solanum chacoense* 5091
- *Solanum demissum* 5091
- *Solanum megistacrolobum,* taxonomy 12941
- *Solanum spegazzinii*
  - *Globodera pallida* 12946
  - *Globodera rostochiensis* 5117
- *Solanum tarijense* 5091

Restriction fragment length polymorphism *cont.*

- *Solanum tuberosum* 2343, 4795, 5091
  - *Globodera rostochiensis* 2976, 11834
  - insects 8282
  - *Leptinotarsa decemlineata* 8282
  - *Phytophthora infestans* 7166, 11834
  - potato X potexvirus 2976, 11834
  - potato Y potyvirus 11834
  - quantitative traits 8282, 11805
  - variety classification 8236
- *Sorghum bicolor* 6916-6917, 7975-7976, 12694
  - *Acremonium strictum* 6948
  - cytoplasmic male sterility 6922
  - drought resistance 11529
  - *Peronosclerospora sorghi* 6948
  - *Sphacelotheca reiliana* 6948
- *Sorghum propinquum* 7975
- *Sphenostylis,* taxonomy 12925
- statistics 7668
- stress, reviews 2305
- techniques 2341
- *Theobroma cacao* 3276
  - evolution 8537, 9714
  - taxonomy 2048
- *Thymus vulgaris* 4484
- *Trifolium hybridum* 8108
- *Trifolium pratense* 8108
- *Trifolium repens* 8108
- Triticeae 8881
- *Triticum* 7726
  - genomes 1286, 1320
  - taxonomy 12550
- *Triticum aestivum* 1318, 5841, 6745, 6813, 7693, 7695, 7697, 7725-7726, 7729, 8881, 12489-12490
  - chlorophyll *a/b* binding protein 11311
  - *Erysiphe graminis* 2547
  - gene mapping 3591
  - glutenins 8883
  - *Heterodera avenae* 7793
  - phosphoenolpyruvate carboxylase 11311
  - phytochrome 11311
  - *Puccinia recondita* 7812
  - ribulose-bisphosphate carboxylase 11311
  - sprouting 7762, 12519
- *Triticum dicoccoides*
  - gliadin 7728
  - glutenins 7728
- *Triticum durum* 1318, 7695
- *Triticum spelta* 12490
  - *Puccinia recondita* 7812
- *Vicia,* evolution 9383
- *Vicia faba,* evolution 9383
- *Vicia pisiformis* 12819
- *Vigna,* linkage 12826
- *Vigna radiata*
  - *Erysiphe polygoni* 8231
  - insects 594
- *Vitis,* variety classification 4157
- *Vitis vinifera*
  - ecotypes 5295
  - variety classification 5286, 11999
- *Zantedeschia* 9867
- *Zea,* seeds 328
- *Zea mays* 154, 2671, 3571, 3713, 5948, 5958, 7880, 9014, 9018, 9026, 10228, 11431, 11435, 11438-11439, 12662
  - anther culture 1414
  - *Cochliobolus heterostrophus* 10292
  - cytoplasmic male sterility 9076, 12670
  - development 9046
  - endosperm 7945, 9132
  - genetic distance 11433
  - *Gibberella zeae* 3767
  - growth period 5969
  - haploidy 7907
  - height 5969, 7936, 10259
  - heterosis 10246
  - maize dwarf mosaic potyvirus 10292
  - male sterility 9074
  - nomenclature 9013
  - oils 11473
  - pollen germination 9071
  - proteins 7942, 11473
  - quality 7943, 11473

Restriction fragment length polymorphism *cont.*

- *Zea mays cont.*
  - quantitative traits 7936, 9051
  - seeds 328
  - *Setosphaeria turcica* 5988, 7964, 10293, 11504
  - starch 7942
  - taxonomy 11489
  - techniques 10229
  - transposable elements 12665
  - wheat streak mosaic rymovirus 10292
  - zein 9131
  - sweetcorn 5949
- *Zoysia japonica,* taxonomy 8062

Resveratrol

- *Nicotiana tabacum*
  - gene expression 6499
  - genetic transformation 6499
- *Vitis vinifera* 3164
  - genetic engineering 6499

Reviews 11244

- *Actinidia,* breeding 5301
- *Allium,* genetic markers, isoenzymes 145
- angiosperms, pollination 8851
- apomixis 116, 1202, 1213
- *Arachis hypogaea, Puccinia arachidis* 7367
- artificial selection 5-6
  - abscisic acid 3474
  - diseases 34
  - drought resistance 3474
  - genetic markers 92
  - pests 34
  - photosynthesis 7
  - respiration 7
  - roots 8
  - stress 32, 2387
- *Avena,* cytogenetics 4788
- *Avena sativa*
  - breeding 4783-4784, 10195
  - genetics 4787
  - lodging 6865
  - stress 4793
- *Beta vulgaris,* sugarbeet, genetic markers, isoenzymes 145
- biotechnology, heterosis 1183
- *Brassica*
  - cytoplasmic male sterility 11864
  - genetic markers, isoenzymes 145
  - male sterility 11864
- *Brassica campestris*
  - breeding 5344
  - sarson 5347
  - toria, breeding 5346
- *Brassica carinata,* breeding 5344
- *Brassica juncea*
  - breeding 5344
  - induced mutations 5359
- *Brassica napus*
  - rape
    - biotechnology 822, 3193
    - breeding 5344
- breeding 5
- *Cajanus cajan,* breeding 8212
- *Capsicum,* breeding 6284
- cell culture 2393
- chloroplast genetics 1146, 2347
- chromosome morphology 1193
- chromosome pairing 1190
- *Cicer arietinum,* diseases 8140
- *Cocos nucifera*
  - experimental design 6374
  - statistics 6374
- crops
  - biotechnology 11172
  - breeding 11172
  - genetic transformation 40, 2349
  - herbicides 11172
  - hybrid varieties 1390
  - inbreeding 1390
  - salinity 7589
  - sexual reproduction 11246
  - vegetative reproduction 11246
  - viruses 2314
- Cruciferae
  - cytoplasmic male sterility 11864
  - male sterility 11864
- cytoplasmic inheritance 11178
- cytoplasmic male sterility 1201
- diseases, history 6650

Reviews *cont.*
- DNA 1193
- *Eruca vesicaria* 5406
- evolution 11253, 11255
  - senescence 8861
- fatty oil plants
  - breeding 1927
  - cold resistance 5376
  - salinity 5375
- fodder legumes, genetic transformation 10448
- forest trees, salinity 5520
- gene expression 42, 4575, 9989, 11186-11187
  - air pollution 1112
  - cauliflower mosaic caulimovirus 1124
  - cell division 110
  - diseases 8780
  - stress 8780-8782
  - superoxide dismutase 8780, 8782
- gene mapping 41
  - heat shock 2305
  - plants 9974
  - stress 2305
- genetic engineering 55
  - α-amylase 8803
  - bacteria 35
  - lysozyme 35
  - pathogens 33
- genetic markers 91, 7599, 9984-9985
- genetic resources 19
- genetic transformation 54-55, 4566, 7599, 9984-9985, 11176, 11186-11187, 11189-11190, 11192, 12394
  - cauliflower mosaic caulimovirus 1124
  - chitinase 5731
- genetics 88
  - chitinase 5731
  - competitive ability 2317
  - self compatibility 10043
- genotype environment interaction 29
- *Glycine max*
  - breeding 10480
  - physiology 10480
- grain legumes
  - biotechnology, nutritive value 4979
  - diseases 8138
  - genetic engineering, nutritive value 4979
  - genetic transformation 10448
  - nutritive value 4973, 4978
- grasses, artificial selection, drought resistance 1625
- haploidy 111
- *Helianthus annuus*
  - biotechnology 3218
  - breeding 10855
- heterosis, self compatibility 10043
- *Hordeum vulgare*
  - breeding 10154
  - genetic markers, isoenzymes 145
- hybridization, evolution 100
- *in vitro* selection 123
  - pollen 117
  - stress 2387
- incompatibility 114
- induced mutations 103, 11176
- interspecific hybridization 98
- Leguminosae
  - nitrogen fixation 501
  - *Rhizobium* 501
- *Lens*
  - domestication 560
  - genetic resources 560
  - taxonomy 560
- *Lens culinaris,* diseases 8140
- *Lycopersicon esculentum*
  - breeding 5168
  - gene expression
    - fruits 9541
    - polygalacturonase 9541
    - ripening 9541
  - genetic transformation 11883
    - fruits 9541
    - polygalacturonase 9541
    - ripening 9541
  - mutations 11883
- male sterility 115, 1201
- *Medicago,* self incompatibility 474
- mitochondrial genetics 48, 6669, 7612, 11177-11178

Reviews *cont.*
- mitochondrial genetics *cont.*
  - cytoplasmic male sterility 8804
- molecular genetics 53, 91, 11167, 11188, 11190
  - ascorbate peroxidase 8783
  - development 11272
  - glutathione reductase 8783
  - nitrogen 12395
  - nuclei 11237
  - nutrients 12395
  - pathogens 33
  - self incompatibility 7674
  - stress 8783
- mutations 11186, 11189
- natural selection, senescence 8861
- *Nicotiana tabacum*
  - gene expression 12145
    - pathogens 2075
  - genetic transformation 12145
- nucleotide sequences 9985
- *Olea europaea, in vitro* culture 3234
- *Oryza sativa*
  - breeding 10369
  - genetic transformation 12717
  - physiology 10369
- pests, history 6650
- *Petunia hybrida*
  - genetic engineering
    - colour 1019
    - flavonoids 1019
- *Pisum sativum*
  - diseases 8140
  - genetics 6176
    - nodulation 6191
    - *Rhizobium* 6191
  - molecular genetics
    - proteins 6180
    - seeds 6180
    - starch 6180
  - mutations
    - flowering 6181
    - morphology 6181
- plants, molecular genetics 7604
- polymerase chain reaction 9989
- population genetics 89, 10033
- protoplast fusion 99, 2391-2392
- *Quercus petraea,* tissue culture 13268
- *Quercus robur,* tissue culture 13268
- random amplified polymorphic DNA 4578
- *Raphanus sativus*
  - cytoplasmic male sterility 11864
  - male sterility 11864
- recombination 88
- restriction fragment length polymorphism
  - heat shock 2305
  - stress 2305
- *Secale cereale*
  - chromosome translocation 195
  - genetic markers, isoenzymes 145
- self incompatibility 114, 12448
- sexual reproduction 7671
- *Solanum,* evolution 11830
- *Solanum melongena,* breeding 5192
- *Solanum tuberosum*
  - breeding 10565
  - genetic markers, isoenzymes 145
  - molecular genetics 2952
  - potato leaf roll luteovirus 10601
  - potato X potexvirus 10601
  - potato Y potyvirus 10601
  - viruses 11840
- taxonomy 11253, 11255, 11264
- temperate fruits
  - diseases 3109
  - genetic transformation 3105
  - protoplasts 3107
- tissue culture 122
- toxic substances, aluminium 8784
- transposable elements 11176
- *Triticum*
  - *Fusarium* 2536
  - *Oulema* 4749
- *Triticum aestivum*
  - breeding 10070
  - chromosome translocation 195
  - gene location, tissue culture 221
  - genetic markers, isoenzymes 145
  - genetics, tissue culture 221
- *Triticum durum,* induced mutations 5864

Reviews *cont.*
- *Vicia faba,* diseases 8140
- *Vitis vinifera, in vitro* culture 3162
- *Zea mays*
  - breeding 10218
  - cold resistance 11495
  - genetic engineering 4813
  - genetic markers, isoenzymes 145
  - hybrid varieties 1390
  - inbreeding 1390
  - transposable elements 5963

Rhamnosyltransferases
- *Petunia hybrida*
  - gene expression 3412
  - molecular genetics 3413
  - nucleotide sequences 3412-3413

Rheum emodi, tissue culture 1047

Rhizobium (*see also Bradyrhizobium;* Nitrogen fixation)
- *Arachis hypogaea* 12087
- *Cicer arietinum* 6204
- fodder legumes
  - gene expression 7071
  - genetics 7071
- *Glycine max* 7090, 11727
  - gene expression 520
- *Glycine tomentella,* gene expression 520
- grain legumes
  - gene expression 7071
  - genetics 7071
- Leguminosae, reviews 501
- *Lens culinaris* 8205, 12908
- *Medicago sativa*
  - gene expression 3918, 7050, 7071, 11665, 12813
  - genetic transformation 3918
  - genetics 7071
- *Medicago truncatula*
  - gene expression 3918
  - genetic engineering 3918
- *Phaseolus vulgaris* 8181
  - linkage 2894
  - restriction fragment length polymorphism 2894
- *Pisum sativum*
  - gene expression 557
  - genetics, reviews 6191
  - mutations 7115
- *Trifolium subterraneum,* gene expression 12816
- *Vigna radiata* 2939
- *Vigna unguiculata*
  - gene expression 10549
  - molecular genetics 10549

Rhizoctonia (*see also Corticium; Macrophomina; Thanatephorus)*

Rhizoctonia solani
- *Cicer arietinum* 1755, 2929
- *Festuca arundinacea* 8074
- *Glycine max* 10491
- *Gossypium arboreum* 8579
- *Gossypium herbaceum* 8579
- *Medicago sativa* 2833
- *Nicotiana tabacum*
  - gene expression 3293, 5464, 6500
  - genetic engineering 5464
  - genetic transformation 3293, 5741, 6500, 8565
- *Oryza sativa* 1607, 2764, 3851, 4901, 12762
- *Phaseolus vulgaris* 2897
- *Solanum tuberosum* 1797
- *Vicia faba* 2881

Rhizomes, *Medicago sativa* 7049

Rhizomonas suberifaciens, *Lactuca sativa* 9528, 12982

Rhododendron
- anther culture 7505
- artificial selection
  - calcium 9854
  - soil pH 9854
- breeding 6559
- evolution 13340
- gene banks 3370
- genetic resources 6559
- hybrid varieties 2156
- random amplified polymorphic DNA 13333-13334
- somaclonal variation 3375
- *Stephanitis pyrioides* 5623
- taxonomy 9849

Rhododendron *cont.*
  tissue culture 3375-3376, 11042
  variety trials 12230
  varieties 13331
    GulfRay 3371
Rhododendron aureum
  flowering 8660
  pollination 8660
Rhododendron calendulaceum, genetic resources 8659
Rhododendron canescens
  chloroplast genetics 5616
  interspecific hybridization 5616
Rhododendron flammeum
  chloroplast genetics 5616
  interspecific hybridization 5616
Rhododendron maximum, genetic resources 8659
Rhododendron mucronulatum
  flowers 2161
  genetic resources 2161
  leaves 2161
  seedlings 2161
Rhododendron periclymenoides, genetic resources 8659
Rhododendron prinophyllum
  genetic resources 8659
  sexual reproduction 2159
Rhododendron simsii, taxonomy 11048
Rhopalosiphum maidis, *Sorghum bicolor* 12697
Rhopalosiphum nymphaeae, *Azolla* 7562
Rhopalosiphum padi
  Aegilops 11372
  Triticum aestivum 260, 1335
Rhynchosia* × *Cajanus, intergeneric hybridization 1758, 6211
Rhynchosporium orthosporum, *Dactylis glomerata* 455
Rhynchosporium secalis
  Hordeum vulgare 2429, 7857, 8967, 10187-10188
    linkage 1370
    random amplified polymorphic DNA 1370
Rhyzopertha dominica
  Pennisetum glaucum 9192
  Triticum aestivum 6811
Ribes
  breeding 7282, 13045
  black currants, tissue culture 10767
  red currants, tissue culture 10767
Ribes aureum, taxonomy 10768
Ribes canadensis
  genetics, *Sphaerotheca mors-uvae* 1901
  interspecific hybridization 1901
Ribes grossularia (*see Ribes uva-crispa*)
Ribes nigrum
  breeding, history 3103
  cold resistance 13074
  genetics, *Sphaerotheca mors-uvae* 1901
  interspecific hybridization 1901
  plant introduction 10766
  quality 5269
  Tetranychus urticae 5270
  varieties, Vakariai 3143
Ribes odoratum, taxonomy 10768
Ribes uva-crispa, breeding, history 3103
Ribitol dehydrogenase
  Hordeum vulgare
    gene expression 12594
    nucleotide sequences 12594
Ribonucleases
  Arabidopsis thaliana
    evolution 4582
    molecular genetics 4582
  Lycopersicon peruvianum, nucleotide sequences 11879
  Nicotiana, molecular genetics 6485
  Nicotiana alata
    gene expression 4301
    genetic transformation 6484
  Nicotiana langsdorffii, genetic transformation 6484
  Petunia, molecular genetics 6485
  Petunia inflata, genetic transformation 6582
  Solanaceae 11242
Ribosomal DNA
  Arabidopsis, molecular genetics 1151
Ribosomal DNA *cont.*
  Brassica campestris, molecular genetics 3194
  Epilobium, molecular genetics 13363
  evolution 4641
  Lathyrus
    molecular genetics 6098
    restriction fragment length polymorphism 6097
  Lathyrus sativus, molecular genetics 6099
  Leucaena leucocephala, restriction fragment length polymorphism 13280
  Oryza sativa, induced mutations 8001
  Raphanus sativus
    gene expression 9493
    gene mapping 9493
  Scilla scilloides, gene location 12267
  Silene pratensis, gene location 12250
Ribosomal RNA
  Beta vulgaris
    sugarbeet
      gene location 13184
      gene mapping 13184
  chloroplast genetics 11261
  evolution 11254
  genetic distance 11261
  Nicotiana plumbaginifolia
    chloroplast genetics 12122
    mutations 12122
  nucleotide sequences 10049
  Oryza sativa
    gene expression 11560
    gene location 11560
Ribosome inactivating proteins
  Hordeum vulgare
    gene expression 6500
    genetic engineering 6500
  Nicotiana tabacum
    gene expression 6500
    genetic transformation 6500
Ribosomes
  Arabidopsis thaliana
    gene expression 62
    mitochondrial genetics 62
    nucleotide sequences 4585
  chloroplast genetics 47
  molecular genetics 4628
  Oryza sativa
    molecular genetics 402
    nucleotide sequences 4884
  Solanum tuberosum
    gene expression 5089
    genetic engineering 5089
    mitochondrial genetics 12931
    nucleotide sequences 5089, 12931
Ribozymes
  molecular genetics
    evolution 8805
    RNA 8805
  Nicotiana tabacum
    gene expression 12127
    genetic transformation 5473, 12127
    molecular genetics 12127
Ribulose-bisphosphate carboxylase
  Adiantum capillus-veneris
    molecular genetics 8726
    nucleotide sequences 8726
  Anemia phyllitidis, gene expression 6596
  angiosperms, chloroplast genetics 2398-2400
  Arabidopsis thaliana
    gene expression 1161, 7650
    genetic transformation 1161
    mutations 7650
  Arachis hypogaea, gene expression 12466
  Asteridae, chloroplast genetics 2402
  Betulaceae, chloroplast genetics 3339-3340
  Botrypus strictus
    molecular genetics 8726
    nucleotide sequences 8726
  Castanea sativa, nucleotide sequences 3184
  Compositae, chloroplast genetics 2404
  conifers, gene expression 7475
  Cornus, chloroplast genetics 3350
  Cupressaceae, chloroplast genetics 5610
  Empetraceae, chloroplast genetics 2403
  Epacridaceae, chloroplast genetics 2403
Ribulose-bisphosphate carboxylase *cont.*
  Ericaceae, chloroplast genetics 2403
  Fagus, nucleotide sequences 8622
  fatty oil plants, chloroplast genetics 3188
  genetic engineering 1135, 5750
  Geraniaceae, chloroplast genetics 3368
  Glycine max, gene expression 12466
  Hevea brasiliensis
    chloroplast genetics 4344
    nucleotide sequences 4344
  Hordeum vulgare
    chloroplast genetics 11376
    gene expression 11376
    molecular genetics 5909
  Lycopersicon esculentum, gene expression 394
  Malus pumila, nucleotide sequences 9573
  Mesembryanthemum crystallinum, gene expression 4464
  molecular genetics 11256
  mutations 1135
  Nicotiana tabacum 5461
    artificial selection 3287
    gene expression 2067, 12125, 12145, 13226
    genetic engineering 12125
    genetic transformation 2067, 6490, 6493, 8555, 12145, 13226
    molecular genetics 917
    mutations 3286
  Nothofagus, nucleotide sequences 8622
  nucleotide sequences 10049
  Onagraceae, chloroplast genetics 3369
  Oryza sativa
    gene expression 394, 6975, 12674
    genetic transformation 394, 12674
    molecular genetics 398
  Osmunda cinnamomea
    molecular genetics 8726
    nucleotide sequences 8726
  Petunia hybrida, genetic engineering 11880
  Phaseolus 5026
  Phaseolus vulgaris 5026, 5029
    gene expression 8175
  Picea abies, gene expression 8640
  Pisum sativum
    gene expression 6170, 10521
    molecular genetics 9402
  Pteris vittata, nucleotide sequences 8725
  Saxifragaceae, chloroplast genetics 3398
  Sorghum bicolor
    chloroplast genetics 12471
    gene expression 12466, 12471
  Triticum aestivum
    gene location 11311
    restriction fragment length polymorphism 11311
    somaclonal variation 12536
  Triticum durum
    combining ability 8896
    genetic variance 8896
    heterosis 8896
  Triticum turgidum 2496
  Zea mays
    chloroplast genetics 12471
    gene expression 12466, 12471, 12674
    genetic engineering 12674
  Zingiberales, chloroplast genetics 2401
Ribulose-bisphosphate carboxylase activase
  Cucumis sativus, nucleotide sequences 7239
  Malus pumila
    gene expression 1890
    nucleotide sequences 1890
  Nicotiana tabacum
    gene expression 931, 8557
    genetic transformation 931, 5155, 8557
    induced mutations 8557
  Spinacia oleracea
    gene expression 5155
    genetic transformation 5155
Rice grassy stunt tenuivirus, *Oryza sativa* 2772
Rice grassy stunt virus, *Oryza sativa* 1611
Rice hoja blanca tenuivirus, *Oryza sativa* 8052, 12772
Rice ragged stunt oryzavirus, *Oryza sativa* 1611

- **Rice stripe tenuivirus**
  - *Oryza sativa* 3860
    - genetics 12761
- **Rice tungro bacilliform badnavirus**
  - *Oryza* 446
  - *Oryza glaberrima* 446
  - *Oryza officinalis* 9240
  - *Oryza ridleyi* 9240
  - *Oryza rufipogon* 9240
  - *Oryza sativa* 1613, 3859, 3861, 8053, 12771
    - gene expression 11609
    - genetic transformation 11609
- **Rice tungro spherical ribotungrovirus**
  - *Oryza* 446
  - *Oryza glaberrima* 446, 1612
  - *Oryza sativa* 1613, 3859, 3861, 12771
- **Rice tungro virus,** *Oryza sativa* 1611
- **Rice yellow mottle sobemovirus,** *Oryza* 12773
- ***Ricinus communis***
  - breeding 10888
  - combining ability, yield components 4267
  - gene expression
    - catalase 12092
    - cysteine proteinase 4266
    - isocitrate lyase 6478
    - phosphoglyceromutase 4265
  - genetic engineering, isocitrate lyase 6478
  - genetic resources 6426, 7369, 10888
  - heritability, yield components 9692
  - molecular genetics, catalase 7370
  - nucleotide sequences
    - catalase 12092
    - cysteine proteinase 4266
    - phosphoglyceromutase 4265
    - phosphopyruvate hydratase 12094
    - stearoyl-CoA desaturase 12093
  - tissue culture 1992
- **Rieske FeS protein**
  - *Nicotiana sylvestris,* gene expression 9726
  - *Nicotiana tabacum,* gene expression 9726
  - *Nicotiana tomentosiformis,* gene expression 9726
  - *Solanum tuberosum*
    - gene expression 9453
    - nucleotide sequences 9453
- **Ripening**
  - *Fragaria ananassa,* gene expression 13080
  - *Lycopersicon esculentum* 5180
    - gene expression 672-673, 1829, 3058, 4062-4063, 7215, 10668, 10671, 11887, 13011
      - reviews 9541
    - genetic engineering 2348, 4062, 4070, 7226, 9542, 10663, 13011
    - genetic transformation 673, 1836, 3055, 4062, 11883, 11887
      - reviews 9541
    - molecular genetics 672, 675, 4063, 5172, 10671, 13006
    - mutations 675, 10663, 11883
    - nucleotide sequences 1829, 7215
  - *Malus pumila* 4124, 11948
  - *Olea europaea* 7356
  - *Persea americana* 13108
    - gene expression 3180
    - molecular genetics 3180
  - *Prunus persica* 8409
    - gene expression 4141, 9588-9589, 10758
    - molecular genetics 4141, 10758, 13068
    - nucleotide sequences 10758
    - polymerase chain reaction 9589
  - *Pyrus communis* 10737
  - *Pyrus pyrifolia,* heritability 9582
  - *Vitis vinifera* 7293, 9599
- ***Riptortus clavatus,*** *Vigna radiata,* genetics 593
- **RNA** 2325
  - *Allium cepa* 8850
  - *Arabidopsis thaliana,* nucleotide sequences 8810
  - *Capsicum annuum* 8850
  - *Hordeum vulgare* 11397
  - molecular genetics 4555
    - ribozymes 8805
- **RNA** *cont.*
  - molecular genetics *cont.*
    - techniques 9999
  - *Picea abies* 8640
  - *Pinus densiflora,* gene location 4362
  - *Pinus thunbergii,* gene location 4362
  - techniques 43
- **RNA polymerase**
  - Gramineae, chloroplast genetics 4912
  - *Oryza sativa,* chloroplast genetics 7603
  - *Sinapis alba,* gene expression 9675
  - *Zea mays,* chloroplast genetics 7603
- ***Robinia pseudoacacia,*** tissue culture 4357, 8618
- ***Rondeletia***
  - pollen 6566
  - taxonomy 6566
- **Rooting capacity**
  - *Carica papaya* 10815
  - crops 6032
  - *Eucalyptus dunnii,* genetic transformation 5530
  - *Eucalyptus grandis,* genetic transformation 5530
  - *Eucalyptus nitens,* genetic transformation 5530
  - *Juniperus communis* 11034
  - *Larix*
    - clonal variation 13321
    - heritability 13321
  - *Larix laricina* 983
  - *Malus pumila* 5224, 10720
    - somaclonal variation 13049
  - *Oryza sativa* 6032
  - *Pinus banksiana* 983
  - *Pinus monticola* 983
  - *Populus balsamifera* 10990
  - *Salix planifolia* 10990
  - *Tsuga heterophylla* 9829
    - genotype environment interaction 3367
    - heritability 3367
- **Roots**
  - *Allium cepa* 9508
  - *Arabidopsis thaliana,* mutations 73, 3521, 11221
  - artificial selection, reviews 8
  - *Brassica campestris,* turnips, chromosome addition 3993
  - *Brassica oleracea,* kale, chromosome addition 3993
  - *Brassica* × *Raphanus,* chromosome addition 3993
  - *Cichorium intybus* 5162
  - *Cocos nucifera* 10873
  - crops 6032
    - genotype environment interaction 149
    - mutations 149
  - *Cucumis sativus* 722, 1862
    - genetics 8372
  - *Cucurbita ficifolia* 722
  - *Gossypium hirsutum,* germplasm releases 4323
  - *Lupinus* 7063
  - *Lupinus albus* 8119
  - *Lupinus angustifolius* 7063
  - *Lycopersicon esculentum*
    - gene mapping 8331
    - nucleotide sequences 8331
  - *Malus pumila,* genetic transformation 3111
  - *Medicago sativa* 7049
  - *Nicotiana tabacum*
    - gene expression 13211
    - genetic engineering 13211
  - *Oryza sativa* 1599, 3846, 6032
    - heterosis 2745
    - molecular genetics 8004
    - techniques 11579
  - *Paullinia cupana* 7311, 13111
  - *Phaseolus vulgaris* 6161, 9389
  - *Pisum sativum,* gene expression 6182
  - *Populus deltoides* 5540
  - *Populus interamericana* 5540
  - *Populus trichocarpa* 5540
  - *Prunus serotina* 748
  - *Raphanus sativus*
    - chromosome addition 3993
    - genetics 3033
    - immunology 1811
  - *Secale cereale* 11411
- **Roots** *cont.*
  - *Sicyos angulatus* 722
  - *Sorghum bicolor* 9176
  - *Triticum aestivum* 208, 7789, 8945, 10119
    - *in vitro* selection 8893
  - *Zea mays* 10284, 12677
    - gene expression 325
    - molecular genetics 325
    - sweetcorn 12677
- **Rootstocks** (*see also* Grafting)
  - *Actinidia arguta* 5305
  - *Actinidia deliciosa* 5305
  - *Camellia hiemalis* 6562
  - *Citrullus lanatus* 6247
  - *Citrus* 5318, 7301, 13095
  - *Crataegus* 7263
  - *Cucumis sativus* 722, 6247, 7240
  - *Cucurbita ficifolia* 722
  - *Cydonia oblonga* 5241
  - *Malus* 4125, 5225, 8380-8381
  - *Malus honanensis* 8381
  - *Malus pumila* 734, 3121, 4125-4126, 5226-5227, 6293, 6295, 10715, 10720, 10733
    - statistics 11945
  - *Mangifera indica* 1917
  - *Prunus* 10715, 11943
    - plums 3130
      - genetics 11955
  - *Prunus armeniaca* 7272
  - *Prunus besseyi* 5248
  - *Prunus cerasifera,* genetics 11955
  - *Prunus cerasus* 5251
  - *Prunus domestica* 5248, 11958
  - *Prunus mahaleb* 5252
  - *Prunus persica* 6293, 7281, 11958
    - genetics 11955
  - *Prunus salicina* 5248
  - *Prunus spinosa* 5248
  - *Pyrus* 8394
  - *Pyrus communis* 5241
  - *Pyrus pyrifolia* 6293
  - *Rosa canina* 12242
  - *Rosa hybrida* 13348
  - *Rosa moyesii* 12242
  - *Rosa multiflora* 12242
  - *Rosa noisettiana* 12242
  - *Severina buxifolia* 13095
  - *Sicyos angulatus* 722
  - *Solanum melongena* 6247
  - temperate fruits 10715
  - *Vitis* 4156, 5296, 13089
  - *Vitis rotundifolia* 8430
  - *Vitis vinifera* 8430, 11943
- ***Rosa***
  - ascorbic acid 5309
  - biotechnology 13329
  - breeding 6559
  - chimaeras, flowers 3382
  - cold resistance 9855
  - compatibility 2171
  - development 11049
  - *Diplocarpon rosae* 9855
  - drought resistance 5625
  - embryo culture 11050
  - flowering 11049
  - fragrance 7508
  - gamma radiation 9835
  - gene banks 4529
  - genetic engineering
    - colour 13330
    - flowers 13330
  - genetic resources 4407, 4529, 6559
  - genetics
    - anthocyanidins 8662
    - flavonols 8662
  - growth period 11049
  - hybridization 2171, 11050
  - induced mutations
    - corolla 9835
    - leaves 9835
  - interspecific hybridization 5309
  - isoenzymes 4410
  - light 4411
  - molecular genetics
    - anthocyanins 8663
    - colour 8663
    - flavonoid 3′,5′-hydroxylase 8663
    - pH 8663
  - mutations 9846

Rosa *cont.*
  organic acids 5309
  peroxidases 4410
  pharmaceutical products 5309
  phenolic compounds 9846
  quality 4411, 12241
  random amplified polymorphic DNA, variety classification 4409
  secondary metabolites 8664
  Sphaerotheca pannosa 9855
  tannins 5309
  tissue culture 5675
  variety classification 8664
  variety trials 2170
  varieties
    Concetta 3381
    Cubana 3379
    Frontenac 3380
    Korsorb 3379
    Meiflopan 3378
    Meineble 3378
    Simon Fraser 4408
Rosa canina
  Meloidogyne hapla 12242
  rootstocks 12242
Rosa damascena
  varieties
    Noorjahan 3436
    RSL31 3436
Rosa davidii, nutritive value 728
Rosa hybrida
  Botrytis cinerea 3385
  Diplocarpon rosae 8666, 11051, 13349
  embryo culture 8665
  gamma radiation 996, 13346
  induced mutations, flowers 996
  Marssonina rosae 3383-3384
  mutations
    haploidy 13346
    pollen 13346
  ovule culture 8665
  plant extracts 11051
  polyploidy 5624
  regenerative ability 5624
  rootstocks 13348
  somaclonal variation 6567
  tissue culture 13348
Rosa moyesii
  Meloidogyne hapla 12242
  rootstocks 12242
Rosa multiflora
  Meloidogyne hapla 12242
  rootstocks 12242
Rosa noisettiana
  Meloidogyne hapla 12242
  rootstocks 12242
Rosa setigera
  gynoecium 13347
  sex 13347
Roscoea
  chromosome morphology 6568
  chromosome number 6568
Rosellinia bunodes, forest trees 13200
Rosellinia pepo, *Theobroma cacao* 13200
Rosmarinus eriocalyx
  essential oils 9939
  interspecific hybridization 9939
Rosmarinus officinalis
  essential oils 9939
  interspecific hybridization 9939
Rosmarinus tomentosus
  essential oils 9939
  interspecific hybridization 9939
Rubber, *Parthenium argentatum* 5515
Rubus
  abscission 10764
  breeding 5264, 7282
  chromosome number 761
  ethylene 10764
  fruits 10764
  gene expression, β-glucuronidase 12132
  genetic resources 6306, 13072
  genetic transformation, β-glucuronidase 12132
  growth regulators 10764
  nomenclature 3142
  protected cultivation 5264
  tissue culture 13072
  blackberries
    Agrilus ruficollis 1900
    fruits 7283
Rubus *cont.*
  blackberries *cont.*
    habit 7283
    spines 7283
    storage, seeds 8417
    tissue culture 763
    varieties, Arapaho 10762-10763
  raspberries
    chloroplast genetics, variety classification 11986
    restriction fragment length polymorphism, variety classification 11986
    tissue culture 762, 764
Rubus capitulatus, taxonomy 11989
Rubus castroviejoi, taxonomy 13073
Rubus cyclops, taxonomy 13073
Rubus dollnensis, taxonomy 11989
Rubus fruticosus, cryopreservation 6307
Rubus idaeus
  breeding 3141
    history 4146
  cold resistance 3141, 5267
  disbudding 11987
  ellagic acid 9593
  flavonols 9592
  genetics
    glucose-6-phosphate isomerase 1899
    isocitrate dehydrogenase 1899
    malate dehydrogenase 1899
    phosphoglucomutase 1899
    triose-phosphate isomerase 1899
  genotype environment interaction 5266
  interspecific hybridization 760
  mechanical damage 5268
  polymorphism, isoenzymes 9590
  quality 9592-9593
  random amplified polymorphic DNA, variety classification 8418, 13071
  regenerative ability 10765
  storage, seeds 8417
  tissue culture 5267, 11988
  variety classification 9590
  variety trials 760
  varieties
    Meeker 5265
    Red River 8416
Rubus neglectus
  genetics
    glucose-6-phosphate isomerase 1899
    isocitrate dehydrogenase 1899
    malate dehydrogenase 1899
    phosphoglucomutase 1899
    triose-phosphate isomerase 1899
Rubus occidentalis
  interspecific hybridization 760
  storage, seeds 8417
  variety trials 760
Rubus seebergensis, taxonomy 11989
Rubus urbionicus, taxonomy 13073
Rubus ursinus, regenerative ability 10765
Rubus vestitus
  isoenzymes 9591
  spines 9591
Ruella macrantha
  growth period 1069
  height 1069
Rumex acetosa
  chromosome banding 7206
  nucleotide sequences 7206
  sex 7206
Rumex acetosella
  height 5165
  morphology 5165
Ruptiliocarpon caracolito, taxonomy 7458
Ruta graveolens
  cell culture 2225
  polyploidy 2225
Saccharides, *Trifolium pratense* 4953
Saccharinae
  chloroplast genetics, evolution 13178
  mitochondrial genetics, evolution 13178
  restriction fragment length polymorphism, evolution 13178
Saccharum
  artificial selection, cold resistance 6449
  breeding 2000, 6434, 10897, 12101
  cell culture 6444, 12108
  chloroplast genetics, evolution 7374
  chromosome number 5414
  Clavibacter xyli 2021
Saccharum *cont.*
  Eldana saccharina 5424
  gene banks 2001
  gene expression 3258
  genetic resources 6434
  genetic transformation 3258
  Glomerella tucumanensis 8519
  leaves 6442
  multivariate analysis, isoenzymes 2009
  nucleotide sequences
    glucose transporter 8511
    proteins 5412
  physiology 8516
  plant composition 6442, 12106
  pollination 6439
  regenerative ability 12108
  restriction fragment length polymorphism, evolution 7374
  salinity 8516
  silicon 12106
  somaclonal variation
    drought resistance 7375
    quality 7375
  sugarcane mosaic potyvirus 12101
  tissue culture 884, 886, 9700
  Ustilago scitaminea 8521
  variety trials 10897, 12101
  yield correlations 9698
  varieties, N23 5411
Saccharum barberi
  chloroplast genetics 879
  mitochondrial genetics 879
  restriction fragment length polymorphism 879
Saccharum officinarum
  agronomy 2017
  artificial selection 3254, 3261, 5409, 7373
    history 4271
    yield components 4271, 12102
  Bipolaris sacchari 9701
  breeding 876, 1999, 5407-5408, 6435
    computer programming 875, 9695
    databases 9695
  cell culture 10898
  Chilo infuscatellus 5422
  Chilo tumidicostalis 8524
  chloroplast genetics 879
    evolution 13178
  chromosome number 5413
  chromosome pairing 5413
  Clavibacter xyli 2020, 6450
  climate, mathematics 6443
  cold resistance 5420, 6447
  cutting 6445
  Diatraea saccharalis 3265, 5423
  drought resistance 891, 10899
  Eldana saccharina 13180-13181
  experimental design 8509
  fertility 5413
  fibre 2015
  flooding 2019, 6448
  flowering, mathematics 6443
  β-fructofuranosidase 4275
  fungi 10900
  gene expression 2006, 12104
  genetic distance 6438
  genetic engineering, viruses 6454
  genetic resources 5408, 9696
  genetic transformation 2006-2007, 3260, 6437, 12104
    sugarcane mosaic potyvirus 6455
  genetic variance
    Puccinia melanocephala 6452
    sugarcane Fiji disease fijivirus 6453
  genotype environment interaction 890, 3261, 5419, 13179
    nitrate reductase 883
    yield components 12102
  germination 12107
  Glomerella tucumanensis 892-893, 8517-8518
  growth period 2010
  harvesting 2010
  heat shock 12107
  heritability, *Puccinia melanocephala* 894
  Inopus rubriceps 3264
  interspecific hybridization 877, 4271, 5408, 6449
  iron 2018
  leaf fall 12105

Saccharum officinarum *cont.*
  Melanaspis glomerata 5421
  mitochondrial genetics 879
    evolution 13178
  multivariate analysis, *Diatraea saccharalis* 3266
  nitrogen 12109
  nutrients 2018, 12109
  plant composition 13180
  planting date 8515
  protoplasts 2011, 3260, 9699, 12104
  Puccinia melanocephala 3263
  quality 2013-2014, 2016, 5418, 12109
  ratooning 880-881, 6441
  restriction fragment length polymorphism 879
    evolution 13178
  salinity 2018
  seeds 12107
  soil pH 3262, 6446
  somaclonal variation, yield components 887
  stability 5409
  storage, pollen 877
  sugarcane mosaic potyvirus 8523
  sugars 4275
  tillering 882, 12107
  tissue culture 885, 888-889, 2012, 3260, 5417, 8514, 12104
  Ustilago scitaminea 892, 2022, 4276, 6451, 8520, 8522
  variety trials 878, 2002-2003, 2016, 4272-4273, 5410, 6436, 8509, 12103, 13177
  Xanthomonas albilineans 12110
  yield components 12109
  yield correlations 5416, 8513
  yields 12105
  varieties
    Co8208 3256
    Co8362 3255
    CoS90265 4274
    CoS91269 8510
    M1658/78 5407
    N24 9697
    ROC16 2004
Saccharum robustum
  backcrossing
    quality 5415
    yield components 5415
  chloroplast genetics 879
  heritability
    quality 5415
    yield components 5415
  mitochondrial genetics 879
  restriction fragment length polymorphism 879
Saccharum sinense
  chloroplast genetics 879
  mitochondrial genetics 879
  restriction fragment length polymorphism 879
Saccharum spontaneum
  artificial selection
    history 4271
    yield components 4271
  breeding 5408
  chloroplast genetics 879
  gene mapping 2005, 3259, 8512
  genetic resources 5408
  genetic transformation 3257
  interspecific hybridization 877, 4271, 5408, 6449
  mitochondrial genetics 879
  restriction fragment length polymorphism 879, 3259, 8512
  storage, pollen 877
***Saccharum* × *Erianthus*,** intergeneric hybridization 6439-6440
***Saccharum* × *Miscanthus*,** intergeneric hybridization 2008
Saccharum* × *Sorghum
  intergeneric hybridization 6440
  isoenzymes 6440
***Sacoila lanceolata*,** taxonomy 1027
Sagittaria trifolia
  genetics, yield components 12965
  heritability, yield components 12965
***Saintpaulia*,** taxonomy 8688
Saintpaulia ionantha
  protoplasts 7515
Saintpaulia ionantha *cont.*
  somaclonal variation 4387
  tissue culture 7516
Salacia chinensis
  fruits 9633
  plant introduction 9633
Salicin, *Salix nigricans* 9790
Salicortins, *Salix sericea,* heritability 4352
Salicylic acid
  Nicotiana tabacum 6503
    gene expression 3279, 4306, 10925
    genetic transformation 3279
Salinity
  Actinidia deliciosa 8434
  Aegilops squarrosa 5901
  Arabidopsis thaliana
    gene expression 3509, 3528
    molecular genetics 3528
  Arachis hypogaea 6424, 10884
  artificial selection 11165
  Atriplex nummularia, gene expression 3430, 3475
  bamboos, *in vitro* selection 12304
  Beta maritima 1815
  Beta vulgaris
    fodder beet 1815
    sugarbeet 2040
  Brassica campestris, sarson 5377
  Brassica carinata 5377
  Brassica juncea 5377
  Cicer arietinum 6111
  Citrus limon, in vitro selection 808
  Citrus × *Poncirus, in vitro* selection 1242
  crops 1113, 9959
    breeding 2260
    reviews 7589
  Cucumis melo 9561
  Distichlis 1648
  Elymus elongatus
    gene expression 2523
    gene location 8081
  Elymus × *Triticum* 4727, 5892, 11357
    gene expression 2523
  Eucalyptus camaldulensis 9781
  Eucalyptus microtheca, in vitro selection 13266
  fatty oil plants, reviews 5375
  forest trees, reviews 5520
  genetic engineering 5728
  Glycine gracilis 11724
  Glycine max 11724
    in vitro selection 11276
  Gossypium 7419, 10979
    in vitro selection 2097
  Gossypium barbadense 10979
  Gossypium herbaceum 10979
  Gossypium hirsutum 9750-9751, 10980
  grasses 453, 10393
  Helianthus annuus 7350-7351
    mutations 10864
  Hordeum 10393
    linkage 5849
    pleiotropy 5849
  Hordeum vulgare 286, 1255, 4658, 7854, 10184, 10393, 11390
    artificial selection 8966
    linkage 5849
    nucleotide sequences 8950
    pleiotropy 5849
  in vitro selection 31, 2304, 3476
  Ipomoea batatas, in vitro selection 5135
  Lens culinaris 6111, 9412, 11770
  Leymus 11650
  Lolium multiflorum 457
  Lycopersicon cheesmanii 11888
  Lycopersicon esculentum 1841-1842, 4071, 7229, 11888
    epistasis 11891
    gene expression 9547-9548
    gene location 8337
    genetic markers 8337, 11891
  Lycopersicon pennellii 4071, 11888
    gene location 8337
    genetic markers 8337
  Lycopersicon peruvianum 11888
  Lycopersicon pimpinellifolium
    epistasis 11891
    genetic markers 11891
  Medicago sativa 6082-6083, 9287
    artificial selection 11667
    in vitro selection 3921
Salinity *cont.*
  Medicago varia, in vitro selection 12814
  Mesembryanthemum crystallinum, gene expression 4464, 8730
  Morus alba 7299
  Nicotiana tabacum
    gene expression 3475
    genetic transformation 7402
    in vitro selection 5462, 6496, 11276
  Oryza sativa 1571, 1592, 1594, 1600, 2756, 4894, 6993-6994, 6996, 9230, 9232, 9234, 12753
    in vitro selection 1242, 11285, 11606
  Pennisetum glaucum 3790, 6006
  Phaseolus acutifolius 6166
  Phaseolus vulgaris 6166, 11746
  Pisum sativum 6111
  Poncirus trifoliata, in vitro selection 1242
  Psathyrostachys 11650
  Saccharum 8516
  Saccharum officinarum 2018
  Solanum melongena, in vitro selection 5194
  Solanum tuberosum 9472
  Sorghum bicolor 4870, 5996, 9177
    artificial selection 3776
  Stenotaphrum secundatum 10415
  Thinopyrum 11650
  Trifolium fragiferum 7057
  triticale 7876
  Triticeae 1253, 10393, 12558
  Triticum
    linkage 5849
    pleiotropy 5849
  Triticum aestivum 239, 1255, 4658, 4726, 5891-5892, 6764, 10127, 11301, 12558
    gene expression 2523
    gene location 8081
    genetics 6769
    Hordeum vulgare, genetics 2435
    linkage 5849
    pleiotropy 5849
    stability 7788
  Triticum durum 1325
    genetics 6769
  Triticum × *Thinopyrum* 11650
  Vaccinium corymbosum, in vitro selection 7286
  Vicia faba 6111, 7097
  Vigna radiata 10560, 11786-11787
    in vitro selection 592, 7154-7155
  Vigna unguiculata 10552
  Zea mays 11496
    in vitro selection 9147
Salix
  artificial selection, *Erwinia salicis* 8612
  energy resources 11000
  flavones 7449
  flavonols 7449
  stability, development 5551
  wood properties 6544
Salix acutifolia
  morphology 12192
  plant composition 12192
  taxonomy 12192
***Salix alba*,** genetic transformation 8598
***Salix caprea*,** tissue culture 7450
Salix daphnoides
  morphology 12192
  plant composition 12192
  taxonomy 12192
***Salix eriocephala*,** yield correlations 2120
***Salix exigua*,** genetics, isoenzymes 3346
Salix nigricans
  phenolic compounds 9790
  salicin 9790
***Salix planifolia*,** rooting capacity 10990
***Salix sericea*,** heritability, salicortins 4352
Salix viminalis
  Dasineura marginemtorquens 976
  ethylene 2121
  genetic transformation, isopentenyl transferase 5550
  genetics, *Melampsora* 3347
  growth regulators 2121
  heritability, *Dasineura marginemtorquens* 977
  injuries 2121
  lethals, mathematics 13275

- ***Salix viminalis*** *cont.*
  - pathogens 2121
- ***Salvia penstemonoides,*** molecular genetics 2175
- ***Salvia pratensis***
  - crop density 8741
  - male sterility 8741
  - outcrossing 8741
- ***Sambucus nigra***
  - aroma, multivariate analysis 6316
  - fruits, multivariate analysis 6316
  - gene expression
    - cellulase 9613
    - β-glucanase 9613
  - nucleotide sequences
    - cellulase 9613
    - β-glucanase 9613
- ***Sanguisorba minor***
  - seedlings 7017
  - seeds 7017
- ***Santalum album***
  - fertilization 9937
  - pollination 9937
  - somaclonal variation
    - height 1060
    - mycoplasma-like organisms 1060
    - wood properties 1060
- **Sapogenins,** *Solanum,* tuberous species 4002
- ***Saponaria officinalis***
  - gene expression, saporin 4472
  - nucleotide sequences, saporin 4472
- **Saponins**
  - *Bellis perennis* 12290
  - *Glycine soja,* mutations 10486
  - *Lupinus albus* 6093
  - *Lupinus angustifolius* 6093
  - *Medicago sativa* 2831
- **Saporin**
  - *Saponaria officinalis*
    - gene expression 4472
    - nucleotide sequences 4472
- ***Sarcochilus huliorum,*** taxonomy 9902
- ***Sarcolaena isaloensis,*** taxonomy 13290
- **Satellite DNA,** genetic markers 7663
- ***Satyrium,*** taxonomy 6594
- ***Saxifraga nelsoniana,*** taxonomy 8691
- **Saxifragaceae**
  - chloroplast genetics 8728
    - evolution 3398
    - ribulose-bisphosphate carboxylase 3398
    - taxonomy 3398
  - evolution 8728
  - nucleotide sequences 8728
- ***Scabiosa argentea***
  - chemotaxonomy 9877
  - flavonoids 9877
  - leaves 9877
- ***Scabiosa columbaria***
  - fertility 13356
  - heterosis 12244
  - inbreeding depression 12244
  - outcrossing 13356
- ***Scabiosa tenuis***
  - chemotaxonomy 9877
  - flavonoids 9877
  - leaves 9877
- ***Scaevola,*** varieties, Petite 3389
- ***Schefflera,*** taxonomy 7457
- ***Scherophthora rayssiae,*** *Zea mays* 9151
- ***Schidorhynchos,*** taxonomy 7531
- ***Schiedeella,*** taxonomy 8722
- ***Schima superba***
  - heritability, yield components 9805
  - yield correlations 9805
- ***Schizaphis graminum***
  - *Aegilops* 4750
  - *Avena sativa* 10067
  - *Hordeum chilense* 12631
  - *Hordeum vulgare* 1374, 10067
    - genetics 2624
  - *Secale cereale* 10067
  - *Sorghum bicolor* 6954, 9181
  - *Triticum* 4750
  - *Triticum aestivum* 2569, 6812, 8943, 10067
    - chromosome translocation 8944
    - genetics 8944
    - germplasm releases 3665
- ***Schizochilus,*** taxonomy 6594
- ***Schizophyllum commune,*** molecular genetics, glyceraldehyde-3-phosphate dehydrogenase 1064
- **Schlerenchyma**
  - *Lycopersicon esculentum*
    - gene expression 13008
    - nucleotide sequences 13008
- ***Schlumbergera truncata,*** fungi 3400
- ***Scilla autumnalis***
  - chromosome banding 7524
  - nucleolus organizer 7524
  - polyploidy 7524
- ***Scilla scilloides***
  - chromosome banding 12267
  - chromosome morphology 12267
  - gene location, ribosomal DNA 12267
  - genomes 12267
- ***Scirpophaga incertulas,*** *Oryza sativa* 1617, 3849, 7011
- ***Sclerochloa dura***
  - chloroplast genetics, taxonomy 10411
  - restriction fragment length polymorphism, taxonomy 10411
- ***Sclerospora*** (*see also Peronosclerospora)*
- ***Sclerospora graminicola***
  - *Pennisetum glaucum* 1507, 4877, 12702
    - artificial selection 6961
    - combining ability 6008
    - genetic variance 6961
    - *in vitro* selection 6007
    - somaclonal variation 6007
- ***Sclerostachya***
  - chloroplast genetics, evolution 7374
  - restriction fragment length polymorphism, evolution 7374
- ***Sclerotinia***
  - *Arachis hypogaea* 867
  - *Pisum sativum* 5058
- ***Sclerotinia borealis***
  - *Festuca pratensis,* artificial selection 11619
  - *Phleum pratense,* artificial selection 11619
  - *Trifolium pratense,* artificial selection 11619
- ***Sclerotinia minor***
  - *Arachis hypogaea* 3245, 3247
    - genetics 3244
    - heritability 3244
- ***Sclerotinia sclerotiorum***
  - *Brassica,* genetics 12052
  - *Brassica napus,* rape 3189, 8467, 9674
  - *Glycine max* 524, 8162, 12866
  - *Helianthus annuus* 848, 3189, 10865, 13145
  - *Linum usitatissimum,* linseed 3189, 8467
  - *Medicago sativa, in vitro* selection 6061
  - *Phaseolus vulgaris* 1729, 2900, 8182
    - germplasm releases 10510
  - *Pisum sativum* 2912
  - *Trifolium alexandrinum, in vitro* selection 6061
  - *Trifolium incarnatum, in vitro* selection 6061
- ***Sclerotinia trifoliorum***
  - *Medicago sativa* 480, 8106
    - *in vitro* selection 6061
  - *Trifolium alexandrinum, in vitro* selection 6061
  - *Trifolium incarnatum, in vitro* selection 6061
  - *Trifolium pratense* 11677
    - *in vitro* selection 2840
    - induced mutations 2841
- ***Sclerotium*** (*see also Macrophomina; Magnaporthe)*
- **Scolytidae,** conifers 9808
- ***Scoparia dulcis,*** terpenoids 9920
- **Scopolamine**
  - *Datura* 2226
  - *Datura candida* 2226
  - *Datura suaveolens* 2226
- **Scopoletin**
  - *Nicotiana debneyi* 7403
  - *Nicotiana glutinosa* 7403
- **Seasonal growth**
  - *Allium cepa* 9502
  - *Bromus auleticus,* genetic resources 7038
  - *Cucumis sativus* 7240
  - *Juglans regia* 5336
  - *Lolium perenne,* artificial selection 2780
- **Seasonal growth** *cont.*
  - *Malus pumila* 7252
    - combining ability 3112
    - genetic variance 3112
  - *Phaseolus vulgaris* 5028
  - *Pinus sylvestris* 3355-3356
  - *Prunus,* plums 13056
  - *Prunus persica* 13056
  - *Trifolium repens,* artificial selection 2780
  - *Triticum dicoccum* 7761
  - *Triticum monococcum* 7761
- ***Secale***
  - α-amylase 296
  - anthers 7708
  - backcrossing 296
  - *Diuraphis noxia* 8873
  - gene banks 7690
  - genomes
    - *Erysiphe graminis* 4659
    - *Puccinia* 4659
  - intergeneric hybridization 4659
  - outcrossing 7708
  - polymerase chain reaction 11406
  - random amplified polymorphic DNA 11406
  - restriction fragment length polymorphism 11406
  - self pollination 7708
  - sprouting 296
- ***Secale cereale***
  - accessory chromosomes 7869
  - α-amylase 160
  - backcrossing, accessory chromosomes 12644
  - breeding 2421, 8977, 12467
  - chlorophyll 6732
  - chloroplast genetics
    - G proteins 10206
    - taxonomy 4797
  - chromosome aberrations 12643
  - chromosome addition 2651
    - nutrients 12477
  - chromosome banding 3696, 8980
  - chromosome breakage 1383
  - chromosome morphology 2652
  - chromosome pairing 293, 7869, 12643
  - chromosome substitution, nutrients 12477
  - chromosome translocation 1384, 7871
    - *Erysiphe graminis* 8925
    - fertility 8889
    - reviews 195
    - secalins 159
  - chromosome transmission, accessory chromosomes 3697
  - *Claviceps purpurea* 3699, 12647
  - *Cochliobolus sativus* 4660
  - cold resistance 6736, 11278, 11290-11291
  - combining ability
    - *Erysiphe graminis* 6869, 7873
    - *Fusarium culmorum* 2656, 2659
    - *Gibberella zeae* 2656, 2659
    - *Pseudocercosporella herpotrichoides* 2656
  - crossing over 1384
  - digestibility 297
  - electrical properties 6736, 11278
  - epistasis
    - height 8982
    - yield components 8982
  - *Erysiphe graminis* 6870
  - ethyl methanesulfonate 6731
  - flowering 295
  - forage 6058-6059
  - *Fusarium* 2437, 3581
  - *Fusarium culmorum* 2657
  - gamma radiation 4653, 6731-6732
  - gene expression 3573
    - heat shock proteins 11413
    - organelles 8979
  - gene location
    - copper 12477
    - iron 12477
    - isoenzymes 7871
    - nutrients 12477
    - secalins 4796
  - gene mapping 5841, 6728, 7698, 7700, 7702-7703, 8980-8981
    - accessory chromosomes 2648
    - *Heterodera avenae* 6871
  - genetic markers 10207

- ***Secale cereale** cont.*
  - genetic markers *cont.*
    - cytoplasmic male sterility 11410
    - isoenzymes, reviews 145
    - secalins 6867
  - genetic resources 12467
  - genetic transformation 10061
  - genetic variance
    - *Erysiphe graminis* 6869
    - *Fusarium culmorum* 2659, 6868
    - *Gibberella zeae* 2659
    - *Monographella nivalis* 6868
    - *Pseudocercosporella herpotrichoides* 6868
  - genetics
    - desynapsis 10208
    - glutenins 2654
    - height 2653, 11411
    - isoenzymes 5938
    - male sterility 3698
    - meiosis 11408
    - *Monographella nivalis* 2658
    - quality 2654
    - self incompatibility 5937-5938
  - genotype environment interaction, plant composition 1249
  - *Gibberella* 3581
  - *Gibberella fujikuroi* 12567
  - *Gibberella zeae* 4660
  - growth regulators 295
  - heritability
    - *Erysiphe graminis* 6869
    - *Fusarium culmorum* 2659
    - *Gibberella zeae* 2659
  - heterosis
    - aluminium 10065
    - toxic substances 10065
  - hybrid seed production 295
  - induced mutations
    - chlorophyll 6731
    - height 2653
  - interspecific hybridization 296
  - *Leptosphaeria nodorum* 6874
  - linkage 7700
    - *Heterodera avenae* 6871
    - isoenzymes 5938
    - secalins 4796
    - self incompatibility 5938
  - lodging 11411
  - manganese 12477
  - maternal effects, haploidy 7870
  - meiosis 12643
  - *N*-methyl-*N*-nitrosourea 2653
  - mitochondrial genetics 1245, 11405
    - DNA polymerase 3694
  - molecular genetics 1383, 3573
    - nucleolus organizer 3695
    - repetitive DNA 12642
  - *Monographella nivalis* 2438, 2655, 11291, 11412
  - mutagens 2653, 6731
  - mutations
    - androecium 294
    - chromosome pairing 12645
    - desynapsis 10208
    - gibberellic acid 5939
    - growth regulators 5939
    - height 5939
    - meiosis 11408
    - synaptonemal complex 12645
  - nucleolus 5843
  - nucleotide sequences
    - DNA polymerase 3694
    - G proteins 10206
    - organelles 8979
    - repetitive DNA 12642
  - nutrients 12477
  - pentosans 1386, 12646
  - polymerase chain reaction 4795, 11406
    - secalins 6867
    - self incompatibility 7872
  - precipitation 8992
  - quality 163, 1386, 4660, 12646
  - random amplified polymorphic DNA 11406
    - variety classification 11407
  - restriction fragment length polymorphism 4795, 5841, 6728, 10207, 11405-11406
    - accessory chromosomes 2648
  - roots 11411
- ***Secale cereale** cont.*
  - *Schizaphis graminum* 10067
  - secalins 1385
  - self incompatibility 11409
  - somaclonal variation 1384, 10209
  - sprouting 12646
  - stems 11411
  - synaptonemal complex 10208
  - *Tilletia laevis* 2439
  - *Tilletia tritici* 2439
  - variety classification 145, 1385
  - variety trials 153, 3693, 8867
  - varieties
    - Oklon 8978
    - Verkhnyachskaya-87 2412
    - Verkhnyachskaya Nizkoroslaya 2412
- ***Secale strictum,*** chloroplast genetics, taxonomy 4797
- ***Secale sylvestre,*** chloroplast genetics, taxonomy 4797
- ***Secale vavilovii***
  - interspecific hybridization 296
  - pentosans 8983
  - proteins 8983
- ***Secale* × *Aegilops,*** intergeneric hybridization 1382, 2654
- ***Secale* × *Agropyron,*** intergeneric hybridization 2650
- ***Secale* × *Agropyron* × *Triticum,*** intergeneric hybridization 4654
- ***Secale* × *Elymus,*** intergeneric hybridization 8873
- ***Secale* × *Hordelymus,*** intergeneric hybridization 12800
- ***Secale* × *Hordeum,*** intergeneric hybridization 2649, 2651, 4653
- ***Secale* × triticale**
  - embryo culture 10211
  - intergeneric hybridization 10211
  - tissue culture 10211
- ***Secale* × *Triticum*** (*see also* Triticale)
- ***Secale* × *Triticum***
  - chromosome addition, *Erysiphe graminis* 246
  - chromosome banding 198
  - chromosome morphology 298
  - chromosome pairing 293, 298, 8870
  - chromosome substitution 198
    - *Erysiphe graminis* 246
  - chromosome translocation
    - anther culture 3625
    - isoenzymes 2488
    - *Mayetiola destructor* 1336, 11343
    - quality 11343
  - chromosome transmission 3625
  - embryo culture 3703, 8995
  - fertility 299
  - gene location, chromosome pairing 12470
  - genetic variation, isoenzymes 2488
  - genetics
    - intergeneric hybridization 3596
    - male sterility 3698
  - intergeneric hybridization 170, 190, 198, 246, 293, 298-299, 1336, 2488, 2532, 3596, 3598, 3625, 3698, 3703, 8870, 8873, 8991, 8995, 11343, 11413, 12470, 12648
  - nucleocytoplasmic interaction 12648
  - polyploidy 299
  - tissue culture 3703
- **Secalins**
  - *Secale cereale* 1385
    - chromosome translocation 159
    - gene location 4796
    - genetic markers 6867
    - linkage 4796
    - polymerase chain reaction 6867
  - triticale
    - chromosome addition 6867
    - genetic markers 6867
    - polymerase chain reaction 6867
  - *Triticum aestivum*
    - chromosome addition 6867
    - chromosome translocation 159
    - genetic markers 6867
    - polymerase chain reaction 6867
- ***Sechium***
  - chromosome number 11941
  - taxonomy 11941
- **Secondary metabolites**
  - genetic engineering 7601
  - genetic transformation 7601
  - *Rosa* 8664
- ***Sedum***
  - chromosome morphology 9905
  - cytotaxonomy 9905
  - nomenclature 1034
  - polyploidy 9905
- **Seed aging**
  - *Cajanus cajan* 6212
  - *Hibiscus cannabinus* 7428
  - *Hordeum vulgare* 11266
  - *Phaseolus vulgaris* 536
  - *Picea sitchensis* 7486
  - *Triticum aestivum* 11266
  - *Vicia faba* 4999
  - *Zea mays* 5968
- **Seed dispersal,** *Cocos nucifera* 856, 1976
- **Seed moisture**
  - *Glycine max* 11711
  - *Lupinus* 4971
  - *Phaseolus vulgaris* 5036
  - *Pisum sativum* 4971
  - *Triticum aestivum* 4724
  - *Vicia faba* 4971, 5000
  - *Zea mays* 4827
- **Seed production** 1082, 2274, 5715
  - (*see also* Hybrid seed production)
  - *Abies alba* 13319
  - *Brassica oleracea,* cabbages 5150
  - *Capsicum annuum* 8356
  - crops 6635
  - *Digitaria eriantha,* artificial selection 462
  - *Dipterocarpus alatus* 10989
  - forest trees 6530, 6532
    - clonal variation 13259
    - conferences 7568
    - experimental design 7434, 13256
    - legislation 7568
  - *Lolium perenne* 4917
  - *Medicago* 2826
  - *Medicago sativa* 4943
  - *Medicago varia* 4943
  - *Oryza sativa* 6973
  - *Panicum coloratum* 10318
  - *Panicum maximum* 12698
  - *Phacelia linearis* 7510
  - *Picea abies* 12218
  - *Pinus kesiya* 10989
  - *Pinus merkusii* 10989
  - *Pinus nigra*
    - clonal variation 2138
    - heritability 2138
  - *Pisum sativum* 7110
  - *Tectona grandis* 10989
  - *Trifolium pratense* 11675
  - *Triticum aestivum,* genotype environment interaction 2478
  - *Vitis vinifera* 5284
- **Seed testing** 2273, 11157, 12349
  - *Artocarpus heterophyllus* 901
  - *Camellia sinensis* 901
  - cereals 12475
  - crops 2888
  - *Elaeis guineensis* 3224
  - *Galega officinalis* 2782
  - *Gossypium* 8574
  - *Hedysarum coronarium* 2782
  - *Hibiscus cannabinus* 7428
  - *Hordeum vulgare* 2432
  - *Lupinus* 4971
  - *Onobrychis viciifolia* 2782
  - *Phaseolus vulgaris* 2888
  - *Pisum sativum* 2782, 4971
  - *Sorghum bicolor* 6930
  - *Theobroma cacao* 901
  - *Trifolium alexandrinum* 2782
  - *Trifolium resupinatum* 2782
  - *Triticum aestivum* 2432
  - *Vicia faba* 2782, 4971
  - *Vicia sativa* 2782
  - *Zea mays* 4827-4828
- **Seedlessness**
  - *Citrus,* induced mutations 6326
  - *Citrus sinensis,* induced mutations 797, 10806
  - *Vitis vinifera* 3154, 10784, 10787
    - embryo culture 12001
    - interspecific hybridization 12001
    - ovule culture 12001

- **Seedlings**
  - *Arabidopsis thaliana,* mutations 12418
  - *Arachis hypogaea* 12079
  - *Astragalus cicer,* germplasm releases 1678
  - *Beta vulgaris*
    - sugarbeet 10910-10911
      - linkage 3269
      - restriction fragment length polymorphism 3269
  - *Brassica juncea*
    - genetic variance 8481
    - heritability 8481
  - *Brassica napus*
    - rape
      - combining ability 12043
      - heterosis 12043
  - *Citrus* 801
  - *Cocos nucifera* 6388-6389
    - heritability 6393
  - *Coffea canephora* 6469
  - *Elymus spicatus* 12797
  - *Gossypium*
    - chromosome aberrations 10965
    - induced mutations 10965
  - *Gossypium hirsutum,* genotype environment interaction 13240
  - *Helianthus annuus* 7350
    - artificial selection 7333
  - *Hordeum vulgare* 2611
  - *Lespedeza cuneata* 3934, 4965
  - *Leucaena diversifolia* 9313
  - *Leucaena esculenta* 9313
  - *Leucaena lanceolata* 9313
  - *Leucaena leucocephala* 9313
  - *Leucaena pallida* 9313
  - *Lupinus luteus* 7061
  - *Lycopersicon esculentum,* mutations 11882
  - *Mangifera indica* 13103
  - *Nicotiana tabacum,* combining ability 8556
  - *Oryza sativa* 443, 1554
    - genetic variance 8026
    - genetics 10368
  - *Pinus elliottii* 8635
  - *Pinus pinaster* 8634
  - *Pisum sativum* 2906
  - *Prunus serotina* 748
    - multivariate analysis 7274
  - *Psathyrostachys juncea,* polyploidy 8078
  - *Pseudotsuga menziesii* 2149
  - *Quercus douglasii,* maternal effects 10997
  - *Rhododendron mucronulatum* 2161
  - *Sanguisorba minor* 7017
  - *Theobroma cacao* 6473
  - *Triticum aestivum,* induced mutations 8895
  - *Vigna angularis* 5073
  - *Zea mays* 9144
    - deletions 9055
    - gene expression 5984
    - gene location 9079
    - mutations 7927, 9079, 11454
- **Seeds** 11142
  - *Abelmoschus esculentus,* storage 1883
  - *Aegilops* 7828
  - *Aegilops* × *Triticum* 5871
    - nucleocytoplasmic interaction 1299
  - *Agropyron* 7754
  - *Arabidopsis thaliana*
    - gene expression 7637, 8812, 12416
    - gene location 7643
    - induced mutations 81, 7643
    - mutations 7645, 12416
  - *Arachis* 13162
  - *Arachis hypogaea* 3237
    - genetics 12078
    - storage 4256
  - *Asphodelus albus* 4446
  - *Astronium urundeuva,* storage 12285
  - *Avena fatua,* gene expression 5934
  - *Avena sativa,* artificial selection 3688
  - *Baptisia lanceolata* 6101
  - *Beta* 6456
  - *Brassica carinata,* genetics 13135
  - *Brassica juncea,* genetics 12044, 13135
  - *Brassica napus*
    - rape 1947
      - gene expression 4213

- **Seeds** *cont.*
  - *Brassica napus cont.*
    - rape *cont.*
      - genetics 9666, 13135
      - storage 12042
  - *Campanula americana* 3393
  - cereals, storage 4539
  - *Cereus* 8729
  - *Cicer arietinum* 1748, 6203
    - combining ability 7130
    - gene expression 3975
    - genetics 10534
    - linkage 10534
  - *Citrus,* genetics 8446
  - crops, storage 4539
  - Cruciferae
    - gene expression 1812
    - storage 1819
  - *Danthonia linkii,* artificial selection 3897-3898
  - *Danthonia richardsonii,* artificial selection 3897-3898
  - *Elymus* 7754
  - *Eucalyptus,* heterosis 9777
  - *Fagopyrum esculentum* 7013
  - *Fagopyrum tataricum* 449
  - fodder legumes 12823
  - *Ginkgo biloba*
    - nucleotide sequences 13323
    - polymerase chain reaction 13323
  - *Glycine* 2857
    - genetics 10479
  - *Glycine gracilis* 12839
  - *Glycine max* 2857, 2863, 4988, 6132-6133, 6138-6139, 7088, 8152, 9342, 11709, 12839-12840, 12860
    - artificial selection 3945, 6136
    - gene expression 6123
    - genetic engineering 6123
    - genetics 6135, 12842, 12855
    - linkage 12852
    - mutations 12842
    - pleiotropy 1701
    - storage 9341, 11711, 12846
  - *Glycine soja* 11721, 12839
  - *Gossypium* 4321, 6520, 8574
    - chromosome aberrations 10965
    - induced mutations 10965
  - *Gossypium hirsutum* 6520
    - heritability 4322
    - storage 4322
  - grasses, storage 4911
  - *Gymnocalycium* 8729
  - *Harrisia* 8729
  - *Helianthus annuus,* artificial selection 1964
  - *Hordeum vulgare*
    - genetics 1356
    - mutations 6837
  - *Juniperus communis* 11034
  - *Lens culinaris* 11769
    - storage 2919
  - *Linum usitatissimum,* flax 13247
  - *Litchi chinensis* 4185
  - *Lolium perenne* 4917
  - *Lotus* 4960
  - *Lotus corniculatus* 6095
  - *Lupinus* 4971
  - *Lupinus albus* 10440
  - *Lupinus hispanicus,* genetics 11684
  - *Lycopersicon esculentum* 10662
  - *Lycopersicon pimpinellifolium* 10662
  - *Macrotyloma* × *Lablab* 6227
  - *Medicago* 12810
  - medicinal plants, storage 1039
  - *Nicotiana tabacum* 7395
    - gene expression 6123, 10856
    - genetic transformation 6123, 10856
  - *Ocimum* 8743
  - *Oryza sativa* 3828, 3840, 6030, 8033, 11598
    - genetics 1548, 1557
    - germplasm releases 9227
    - somaclonal variation 2746
    - storage 384
  - *Pennisetum glaucum* 10325
  - *Perilla* 1998
  - *Phaseolus coccineus* 537
  - *Phaseolus vulgaris* 542, 5036, 6163
    - economics 12876
    - genetics 11745, 12875

- **Seeds** *cont.*
  - *Phaseolus vulgaris cont.*
    - mutations 5035
    - storage 536
  - *Pilocarpus microphyllus,* storage 12284
  - *Pinus chiapensis* 5585
  - *Pinus elliottii* 8635
  - *Pinus gerardiana*
    - genetic variance 3357
    - heritability 3357
  - *Pinus ponderosa,* storage 13296
  - *Pinus sylvestris* 13299
  - *Pisum sativum* 1740, 2906, 4971, 6178, 11759
    - genetics 6179, 7111, 10527
    - induced mutations 7109
    - molecular genetics, reviews 6180
    - mutations 6190, 7111
  - *Poa pratensis,* storage 6064
  - population genetics 94
  - *Prunus serotina* 748
  - *Pseudotsuga menziesii* 2149
  - *Quercus douglasii,* maternal effects 10997
  - *Raphanus sativus,* gene expression 1812
  - *Rubus,* blackberries, storage 8417
  - *Rubus idaeus,* storage 8417
  - *Rubus occidentalis,* storage 8417
  - *Saccharum officinarum* 12107
  - *Sanguisorba minor* 7017
  - sexual reproduction 1205
  - *Solanum melongena,* storage 10688
  - *Solanum tuberosum* 11790
  - *Stetsonia* 8729
  - storage 15, 8772
  - *Theobroma cacao* 6473
  - *Trichocereus* 8729
  - triticale 4800, 10213
  - *Triticum* 7754
  - *Triticum aestivum* 213, 1295, 2482, 4691, 4699, 4724, 12504, 12521
    - combining ability 11329
    - gene dosage 4716
    - gene mapping 12534
    - genetics 4716, 12508, 12534
    - heritability 11329
    - heterosis 11327
    - induced mutations 8895
    - nucleocytoplasmic interaction 1299
    - pleiotropy 12534
    - storage 11314
  - *Triticum dicoccum* 7761
  - *Triticum durum* 1295
  - *Triticum monococcum* 7761
  - *Triticum turgidum,* genetics 11324
  - *Vicia faba* 4971, 7097
    - induced mutations 6148
    - storage 11266
  - *Vigna angularis* 5073
  - *Vigna mungo* 5077
    - mutations 5076
  - *Vigna unguiculata* 12917
    - mutations 12916
  - woody plants, storage 8765
  - *Zea*
    - gene mapping 328
    - restriction fragment length polymorphism 328
  - *Zea mays* 5980, 6890, 9114, 10294, 11459, 11476
    - artificial selection 3751
    - gene expression 5974, 9090-9091, 10256, 11461
    - gene location 9085
    - gene mapping 328
    - genetics 9085, 9110, 10256
    - heritability 1429
    - molecular genetics 1428, 7613
    - multivariate analysis 3751
    - mutations 1428, 5974, 7927, 9085, 9090, 9110, 11445, 11461
    - pleiotropy 5974
    - polymerase chain reaction 7613
    - restriction fragment length polymorphism 328
    - texture 6877
    - transposable elements 11445
- ***Seiridium cardinale,*** *Cupressus,* artificial selection 7497

Selection 1174, 3532, 4600-4601, 4604, 4615-4616, 5793-5794, 6686, 8834, 11233
 (*see also* Artificial selection; Natural selection)
  gene flow 4607
  linkage, statistics 2369
  mathematics 4605
  multiple alleles 4609
  quantitative traits 8838, 8848
  recombination 4611
  sex 4611
  sexual reproduction 12442
  stability 2363
  statistics 7664
  Zea mays 6879
Selective fertilization 2387
  Triticum aestivum 4690
Selenium
  Brassica 12051
  Fagopyrum esculentum 12774
  Fagopyrum tataricum 12774
Self compatibility 6698
  Actinidia deliciosa 10796
  Annona muricata 12022
  Beta vulgaris, sugarbeet 5428, 7377
  Blandfordia grandiflora 9874
  Campanula rapunculoides 2182
  Clianthus formosus 13337
  Decodon verticillatus 9908, 11064
  Eichhornia paniculata, genetics 9909
  genetics, reviews 10043
  heterosis, reviews 10043
  Hibiscus moscheutos 2185
  Lolium rigidum 11629
  Lotus corniculatus, germplasm releases 2848
  Malus pumila 10722
  Medicago 2826
    induced mutations 2826
  Mimulus guttatus, genetics 9873
  Podophyllum peltatum 1038
  Prunus, plums 3136
Self incompatibility 1209
  Anadenanthera falcata 13285
  angiosperms, books 2269
  Antirrhinum majus
    molecular genetics 3406
    transposable elements 3406
  Averrhoa carambola 12021
  Banksia spinulosa 7501
  Brassica 12029
    molecular genetics 1946, 6344, 12448
  Brassica alboglabra 5149
    gene expression 3553
    genetics 6343
    molecular genetics 3553, 4030
  Brassica campestris
    gene expression 4029
    genetics 6343, 7327
    molecular genetics 9663
    nucleotide sequences 9663
  Brassica napus
    gene expression 4029
    molecular genetics 6344
    rape 10840
      gene expression 4210
      genetics 3200, 6343
      nucleotide sequences 4210
  Brassica oleracea 1818
    gene expression 3041, 4029
    genetic engineering 3041
    genetics 7327
    molecular genetics 3042
    cabbages
      polymerase chain reaction 10641
      restriction fragment length polymorphism 10641
    kale, genetics 6343
  Brassica pekinensis
    polymerase chain reaction 10641
    restriction fragment length polymorphism 10641
  Coffea 6468
  conferences 11129
  genetics 2381, 2388, 3547
  Lilium longiflorum 9888, 11085, 11089
  linkage 2388
  Linum grandiflorum 2101
  Lolium perenne 6066
  Lotus tenuis, genetics 2849
Self incompatibility *cont.*
  Lycopersicon peruvianum
    genetics 1835, 13002
    linkage 1835
    nucleotide sequences 11879
  Medicago, reviews 474
  molecular genetics 5802, 12445
    reviews 7674
  Nicotiana, molecular genetics 6485
  Nicotiana alata
    gene expression 4301
    genetic transformation 6484
    molecular genetics 3282, 12448
  Nicotiana langsdorffii, genetic transformation 6484
  Nicotiana tabacum
    gene expression 3041
    genetic transformation 3041
  Oryza longistaminata 1544
  Papaver rhoeas
    genetics 7541-7543, 9915-9916
    molecular genetics 3428
  Petunia, molecular genetics 6485
  Petunia hybrida, molecular genetics 1235, 3414
  Petunia inflata, genetic transformation 6582
  Phlox drummondii, genetics 2180
  Prunus armeniaca 3131
  Prunus avium 7276
  Pyrus pyrifolia, genetics 4128
  reviews 114, 12448
  Secale cereale 11409
    genetics 5937-5938
    linkage 5938
    polymerase chain reaction 7872
  Solanaceae 11242
    molecular genetics 1235, 2386
  Solanum chacoense
    gene expression 3553
    molecular genetics 3553
    multiple alleles 11815
    nucleotide sequences 8243, 11815
    polymerase chain reaction 11815
  subtropical fruits 4170
  Trifolium pratense 10438
  tropical fruits 4170
  Tulipa 11088
  Vochysia tucanorum 13285
  Xylopia aromatica 13285
  Zea mays, genetics 1415
Self pollination 4637
  Aegilops 7708
  Agropyron × *Triticum* 12539
  Annona muricata 12022
  Blandfordia grandiflora 9874
  Capsicum annuum 8356
  evolution, mathematics 6696
  Hordeum 7708
  Medicago sativa 11662
  Pharbitis purpurea 12254
  Pinus ponderosa 13296
  Secale 7708
  Trifolium 11670
  Zea mays 4823
Selinum
  chromosome number 2217
  DNA 2217
Sempervivum tectorum, tissue culture 6605
Senecio hybridus, tissue culture 7517, 13358
Senecio jacobaea
  interspecific hybridization 5629
  protoplast fusion 5629
  restriction fragment length polymorphism 5629
Senecio nemorensis
  interspecific hybridization 5629
  protoplast fusion 5629
  restriction fragment length polymorphism 5629
Senescence
  Arabidopsis thaliana
    evolution 4582
    gene expression 11219
    molecular genetics 4582
  Brassica napus
    rape
      gene expression 13134
      molecular genetics 13134
      nucleotide sequences 13134
  Campanula rapunculoides 2182
Senescence *cont.*
  crops 6723
  Dianthus caryophyllus 5639
    gene expression 4425
    molecular genetics 4425
  evolution, reviews 8861
  Lolium multiflorum, gene location 12787
  Medicago sativa
    genetics 1655
    induced mutations 1655
  natural selection, reviews 8861
  Nicotiana tabacum
    gene expression 930
    genetic transformation 930
  Pennisetum glaucum 10330
  Phaseolus vulgaris, mutations 10506
  Sorghum bicolor 1480
    germplasm releases 1481
    mathematics 1479
  Zea mays, sweetcorn 9106
Senna multijuga
  genetic variation
    dormancy 12198
    germination 12198
  heritability
    dormancy 12198
    germination 12198
Septoria (*see also Leptosphaeria; Mycosphaerella)*
  Triticum aestivum 6738, 12571
Septoria apiicola, Apium graveolens 9525
Septoria lycopersici, Lycopersicon esculentum 3074, 8345
Septoria vignicola, Vigna unguiculata 12921
Sequoia sempervirens
  development 9828
  respiration 9828, 13325
  temperature 13325
Sequoiadendron giganteum, provenance trials 4382
Serine phosphatase, *Arabidopsis thaliana,* nucleotide sequences 4587
Serpins, *Hordeum vulgare,* nucleotide sequences 1342
Sesamia cretica, Zea mays 10303
Sesamia inferens
  Oryza sativa 7011
  Triticum aestivum 262
Sesamia nonagrioides, Zea mays 11512
Sesamum, genetic resources 5830
Sesamum alatum, fatty acids 13175
Sesamum angustifolium, fatty acids 13175
Sesamum indicum
  anther culture 872
  antioxidants 1993
  artificial selection 13170
  breeding 12095
  combining ability
    Macrophomina phaseolina 1995
    shedding 4268
    yield components 871, 6428
  crop density 10892
  crop mixtures, *Oryza sativa* 3252
  Erysiphe cichoracearum 12099
  Erysiphe orontii 10893
  fatty acids 6430, 13175
  flowering 13173
  genetic resources 135, 870, 6427
  growth period 13173
  habit 10892
  heritability, yield components 12097, 13171
  heterosis
    shedding 4268
    yield components 12096
  interspecific hybridization 10889
  oils 1993, 6430
  outcrossing 13173
  plant introduction 870
  polymorphism, isoenzymes 13174
  proteins 6430
  shedding 9693
  tissue culture 12098
  waterlogging 1994
  yield components 9693
  yield correlations 6429, 10890-10891, 12097, 13171
  varieties 4646
    IAC-China 5405
    Naliendele-92 4648
    Tainan-1 13172

- ***Sesamum radiatum,*** fatty acids 13175
- ***Sesamum schinzianum,*** interspecific hybridization 10889
- ***Sesbania***
  - chemotaxonomy 7067
  - chromosome morphology 1680
  - chromosome number 1680
- ***Sesbania bispinosa,*** tissue culture 492
- ***Sesbania cannabina,*** tissue culture 492
- ***Sesbania formosa,*** tissue culture 492
- ***Sesbania goetzei***
  - chromosome morphology 6100
  - chromosome number 6100
  - flowering 10445
  - growth period 10445
  - interspecific hybridization 6100
  - pollination 10445
- ***Sesbania keniensis***
  - chromosome morphology 6100
  - chromosome number 6100
  - flowering 10445
  - growth period 10445
  - interspecific hybridization 6100
  - pollination 10445
- ***Sesbania macrantha,*** provenance trials 12194
- ***Sesbania rostrata***
  - gamma radiation 491
  - gene expression
    - leghaemoglobin 12822
    - nodulation 12822
  - genetic engineering
    - leghaemoglobin 486, 8122, 12822
    - nodulation 12822
  - induced mutations
    - growth period 491, 1681
    - photoperiodism 491
- ***Sesbania sesban***
  - chromosome morphology 6100
  - chromosome number 6100
  - flowering 10445
  - growth period 10445
  - interspecific hybridization 6100
  - pollen germination 3932
  - pollination 3932, 10445
  - provenance trials 12194
  - storage, pollen 3932
  - tissue culture 492
- ***Sesleria insularis***
  - chloroplast genetics, taxonomy 10411
  - restriction fragment length polymorphism, taxonomy 10411
- ***Setaria italica***
  - ecotypes 1490
  - genetics, starch 7982
  - genotype environment interaction
    - growth period 369
    - height 369
  - leaves 10323
  - photosynthesis 1490
  - vitamin E 4875
  - varieties
    - Chi Gu-4 10322
    - Chi Gu-5 10322
- ***Setaria sphacelata,*** digestibility 6074
- ***Setaria viridis***
  - herbicides 2719-2720
  - trifluralin 2719
- ***Setosphaeria rostrata,*** *Zea mays* 1466
- ***Setosphaeria turcica***
  - *Pennisetum purpureum* 9191
  - *Sorghum bicolor* 2711, 10311
  - *Zea mays* 2689, 2692, 3765, 4844, 4848, 6906-6907, 7959-7960, 10295
    - artificial selection 4843
    - combining ability 9154
    - gene location 11504
    - gene mapping 5988
    - genetics 4845, 12682
    - heterosis 9154
    - linkage 10293
    - restriction fragment length polymorphism 5988, 7964, 10293, 11504
    - stability 6904
    - popcorn, artificial selection 11503
    - sweetcorn 2687
- ***Severina buxifolia,*** rootstocks 13095
- ***Severina × Citrus,*** intergeneric hybridization 13095
- **Sex**
  - *actinidia deliciosa* 9605
  - angiosperms 7672
  - *Boehmeria nivea* 12173, 13250
  - *Cannabis sativa,* genetics 3337
  - *Ceratonia siliqua* 9634
  - *Cucumis melo* 7672
  - *Cucumis sativus* 11929
    - artificial selection 10708
  - *Cucurbita pepo* 10703-10704
  - *Diospyros kaki* 5329, 10819
  - *Echinocereus coccineus* 1033
  - evolution 6689, 6704-6705
  - *Garcinia cambogia* 9635
  - gene expression 3543
  - genetics 3543
  - genomes 6704
  - *Humulus lupulus* 4485
  - *Lythrum salicaria*
    - genetic variance 11063
    - heritability 11063
  - mathematics 12446
  - *Persea americana* 9629
  - *Pinus contorta* 12214
  - *Rosa setigera* 13347
  - *Rumex acetosa* 7206
  - selection 4611
  - *Silene acaulis* 13355
  - *Silene latifolia* 8678, 12251
    - genetic markers 2181
  - *Silene pratensis* 12253
    - molecular genetics 2174
  - *Silene vulgaris* 1002
  - *Solanum hirtum* 5665
  - *Spinacia oleracea* 1822
  - *Thymus baeticus* 12291
  - *Zea mays* 11477
    - epistasis 12672
    - genetics 12672
    - mutations 1421, 12672
- **Sex chromosomes**
  - recombination 8826
  - *Silene pratensis* 12250
- **Sexual reproduction** 1179, 1207, 2383, 6697, 6701, 11247, 12444
  - *Aegilops* 2477
  - *Aegle marmelos* 4192
  - angiosperms 5804, 7673
    - books 2269
  - *Bromus* 1642
  - *Canavalia rosea* 9446
  - *Cephalanthera* 1025
  - conferences 2261
  - crops, reviews 11246
  - *Cucurbita pepo* 10702
  - *Dendrocalamus strictus* 9945
  - *Echeveria gibbiflora* 2215
  - edible fungi 12305
    - genetics 3437
  - *Eleusine* 4931
  - *Eragrostis* 4931
  - *Eucalyptus cladocalyx* 9774
  - *Eucalyptus foecunda* 9774
  - *Eucalyptus leucoxylon* 5529
  - *Eucalyptus spathulata* 9774
  - evolution 12443
  - forest trees 970
  - gene expression 3543, 10041-10042, 12305
  - gene mapping 12305
  - genetics 3543
  - *Gossypium hirsutum* 945
  - *Grewia subinaequalis* 4192
  - *Kalmia latifolia* 2160
  - *Leptospermum continentale* 9844
  - *Leptospermum myrsinoides* 9844
  - *Lindera benzoin* 11112
  - *Malus pumila* 4122
  - mathematics 6702
  - *Mimulus guttatus* 999, 13354
  - *Mimulus micranthus* 999
  - mutations 12442
  - *Nicotiana alata* 926
  - *Oenothera,* genetics 2186
  - *Pandorea baileyana* 9845
  - *Pandorea jasminoides* 9845
  - *Pandorea pandorana* 9845
  - *Panicum maximum,* germplasm releases 10317
  - *Phaseolus vulgaris* 10509
  - *Phyllanthus emblica* 4192
- **Sexual reproduction** *cont.*
  - pollen 1205
  - *Polyalthia hypoleuca* 8617
  - *Prunus mahaleb* 6302
  - *Prunus persica* 11974
  - *Raphanus sativus* 11853
  - reviews 7671
  - *Rhododendron prinophyllum* 2159
  - seeds 1205
  - selection 12442
  - *Syzygium cumini* 4192
  - *Trifolium hirtum* 10434
  - *Triticum* 2477
  - *Ziziphus mauritiana* 4192
- **Sexual selection** 11241
- **Shade**
  - *Helianthus tuberosus* 4023
  - *Oryza sativa* 10384
  - *Trifolium repens* 9295
  - *Triticum aestivum* 10092
    - stability 7787
- **Shape,** *Prunus persica* 5258
- **Shedding**
  - *Abies pinsapo* 13318
  - *Brassica napus*
    - rape
      - gene expression 5365-5366
      - nucleotide sequences 5365-5366
  - *Glycine max* 514, 11705
  - *Lens culinaris* 9409
  - *Oryza sativa*
    - genetics 1556
    - linkage 417, 1556
    - restriction fragment length polymorphism 417
  - *Panicum coloratum* 10318
    - germplasm releases 11532
  - *Sesamum indicum* 9693
    - combining ability 4268
    - heterosis 4268
- **Shikimate dehydrogenase,** *Pisum sativum* 2908
- **Shoots**
  - *Arabidopsis thaliana*
    - genetics 12422
    - induced mutations 12422
    - mutations 3516
  - *Nicotiana glauca,* chimaeras 4304
  - *Nicotiana tabacum,* chimaeras 4304
  - *Paullinia cupana* 7311
  - *Triticum aestivum* 8945
- ***Sicana odorifera***
  - chromosome number 11941
  - taxonomy 11941
- ***Sicyos angulatus***
  - cold resistance 722
  - lipids 722
  - roots 722
  - rootstocks 722
- ***Sida hermaphrodita***
  - forage 12776
  - heritability, yield components 12776
  - yield correlations 12776
- ***Sideritis***
  - chemotaxonomy 2228
  - flavonoids 2228
  - pollen 9921
  - taxonomy 9921
- **Silage**
  - *Pennisetum* 6734
  - *Sorghum bicolor* 6058-6059, 6734, 11525
  - *Zea* 6734
  - *Zea mays* 1400, 1437, 3707, 6058-6059, 6734, 11471
    - combining ability 1455
    - genetics 12681
- ***Silene acaulis***
  - female fertility 13355
  - sex 13355
- ***Silene latifolia***
  - genetic markers
    - pollen competition 2181
    - sex 2181
  - pollination 8678
  - sex 8678, 12251
- ***Silene pratensis***
  - anther culture 12253
  - chromosome banding 12250
  - DNA 12250
  - fertilization 2188
  - gene location, ribosomal DNA 12250

***Silene pratensis** cont.*
  molecular genetics
    flowers 2174
    sex 2174
  pollen 2188
  sex 12253
  sex chromosomes 12250
Silene uniflora, genetics, isoenzymes 2192
Silene vulgaris
  cadmium 6578
  genetics, isoenzymes 2192
  sex 1002
  soil toxicity 6576, 6578
  zinc 6576
Silicon
  Festuca pratensis 11642
  Oryza sativa 9229
  Saccharum 12106
Silver iodide, *Glycine max* 2855
Silver nitrate, *Glycine max* 2855
Simazine
  Cucumis sativus 1862
  Lolium rigidum 2796
Simmondsia chinensis, mutations, fruits 4270
Sinapis alba
  Delia 12054
  development 2358
  flowering 2358
  gene expression
    anthers 9676
    naringenin-chalcone synthase 8491
    photoperiodism 8492
    pollen 9676
    RNA polymerase 9675
    thioglucosidase 843
  genetic transformation 4227
  genetic variance, fatty acids 3214
  heritability, fatty acids 3214
  heterosis, fatty acids 3214
  molecular genetics
    anthers 842, 9676
    photolyases 844
    pollen 9676
  nucleotide sequences
    allergens 8490
    photoperiodism 8492
  photoperiodism 2358
  Phyllotreta cruciferae 7332
  polyploidy 828
  reciprocal effects 828
  Triticum aestivum, crop mixtures 5886
  ultraviolet radiation 844
  variety trials 7320
Sinapis nigra (*see Brassica nigra)*
Sinapis* × *Brassica, intergeneric hybridization 828, 3199, 7324, 13126
Sinningia, genetic transformation, regenerative ability 12283
Sinocalamus stenoauritus
  breeding 11116
  nutritive value 11116
Sinocalamus* × *Dendrocalamus, intergeneric hybridization 11116
Sinojackia sarcocarpa, taxonomy 2128
Sipha flava, *Triticum aestivum* 8943
Sister chromatid exchange
  Hordeum vulgare 2596, 3676
  Picea abies 13310
  Vicia faba 4999
  Zea mays 3735
Sitobion avenae
  Aegilops 11372
  Triticum aestivum 1335, 2570, 10150
Sitodiplosis mosellana, *Triticum aestivum* 8942
Sitona, *Lens culinaris* 8206
Sitophilus granarius, *Triticum aestivum* 11368
Sitophilus oryzae, *Pennisetum glaucum* 9192
Sitophilus zeamais
  Oryza sativa 4904
  Triticum aestivum 4748
  Zea mays 351, 10304, 11507
    genetics 9161
Sitotroga cerealella, *Oryza sativa* 2777, 4902, 11612
Size
  Chamaecrista fasciculata
    heritability 2189
    maternal effects 2189
Snow moulds
  Festuca pratensis 7018
  fodder plants 7018
  grasses 7018
Sodium
  Cenchrus ciliaris 12802
  Glycine max 8160
  Pisum sativum 559
Sodium azide
  Arachis hypogaea 4252
  Avena sativa, mutagens 5933
  Cyamopsis tetragonoloba 3991
  Hordeum vulgare 3576, 3673, 4759, 5910, 10165-10167
  Oryza sativa 9224, 10361
  Solanum tuberosum 10582
  triticale 3576, 8988-8989
  Triticum aestivum 3576
  Vigna aconitifolia 3984
Soejatmia, taxonomy 7558
Sogatella furcifera
  Oryza sativa 1616, 1620, 2775, 4903, 10336, 11613
    artificial selection 2778
Soil-borne wheat mosaic furovirus, *Triticum aestivum* 2564-2565, 11366
Soil compaction
  Pennisetum glaucum 4876
  Phaseolus vulgaris 12880
Soil pH
  Arachis hypogaea 859
  artificial selection 11165
  cereals 10064
  Cicer arietinum 6204
  Glycine max 4994, 12862
  Gossypium 7419
  grain legumes 8137
  Hordeum vulgare, in vitro selection 287
  Lens culinaris 8205
  Lupinus angustifolius 11686
  Medicago polymorpha 6081
  Medicago sativa 9289
  Phalaris aquatica, artificial selection 2820
  Phalaris arundinacea, artificial selection 2820
  Pisum sativum 559
  Rhododendron, artificial selection 9854
  Saccharum officinarum 3262, 6446
  Sorghum bicolor 3777, 4867, 5996, 9176
  triticale 3704
  triticale × *Triticum,* chromosome substitution 4725
  Triticum aestivum 2522, 3651, 6762, 6764, 10064, 11350, 11353, 12561
    artificial selection 2519
    chromosome substitution 4725
    genetic distance 2520
    stability 7788
  Triticum durum 3651, 10064
  Vaccinium angustifolium 11993-11994
  Vaccinium corymbosum 11993-11994
  Vitis 5296
  Zea mays
    artificial selection 3762
    genetic variance 5982
    heritability 5982
Soil toxicity 7586, 8784
  Brassica 12051
  cereals 10064
  Glycine max 12862
    multivariate analysis 12861
  grain legumes 8137
  Holcus lanatus 471
  Medicago sativa 9289
  Pinus nigra 6548
  Pinus sylvestris 6548
  Pisum sativum 10525
  Silene vulgaris 6576, 6578
  Trifolium repens 7058
  triticale 11356
  Triticum aestivum 10064, 11356
    germplasm releases 3647
    in vitro selection 3647
  Triticum durum 10064, 11356
  Vicia faba 5798
  Zea mays 1462
Soil types
  Festuca longifolia 12792
  Festuca pratensis 11642
  Glycine gracilis 11724
Soil types *cont.*
  Glycine max 1713, 11724
  Helianthus tuberosus 12964
  Lycopersicon esculentum 13013
  Vaccinium 4149-4150
Soil water
  Cicer arietinum 7131
  Festuca arundinacea 11643
  Festuca pratensis 11643
  Festuca rubra 11643
  Manihot esculenta 10620
  Trifolium repens 4950
  Triticum aestivum 10119
  Vigna unguiculata 9432
  Vitis vinifera 10788
Soja (*see Glycine)*
Solanaceae
  alkanes 11275
  chemotaxonomy 11275
  chromosome number 1234
  meiosis 1234
  molecular genetics, self incompatibility 1235, 2386
  polyploidy 1234
  ribonucleases 11242
  self incompatibility 11242
Solanum (*see also Lycopersicon)*
  chloroplast genetics, taxonomy 3568
  chromosome morphology 10822
  chromosome number 10822
  cytotaxonomy 10822
  evolution, reviews 11830
  gene expression, apocytochrome *b* 142
  genetic resources 13023
  Globodera pallida 3010
  Globodera rostochiensis 3010
  glycosides 3010
  interspecific hybridization 2990, 2997, 13023
  mitochondrial genetics, apocytochrome *b* 142
  Phytophthora infestans 2990-2992, 2997
  potato leafroll luteovirus 2998
  protoplasts 2968
  Pseudomonas solanacearum 694
  restriction fragment length polymorphism, evolution 8256
  tissue culture 122
  tuberous species (*see also* under individual species)
  wide hybridization 3010
  tuberous species
    Alternaria solani 6240
    apomixis 1782
    calcium 1785
    chemotaxonomy 4002
    Clavibacter michiganensis 11836
    cold resistance 10589
    diploidy 8241
    embryology 1782
    endosperm 9460
    Erwinia 11836
    Erwinia carotovora 8265
    Erwinia chrysanthemi 8265
    gene banks 10563
    genetic resources 601, 2948, 8233, 10563, 11809
    genetic transformation 11809
    genetics 11809
      male sterility 8244
    Globodera pallida 11842
    Globodera rostochiensis 11842
    glycoalkaloids 1784
    haploidy 2964
    inbreeding 8241
    interspecific hybridization 7168, 8244, 8265, 9460
    Leptinotarsa decemlineata 10610
    Meloidogyne 11842
    nucleocytoplasmic interaction, male sterility 8244
    nutrients 1785
    Phytophthora infestans 7168
    plant hairs 10610
    pollen 2964
    pollen germination 9461
    polyembryony 1782
    Pseudomonas solanacearum 11836
    sapogenins 4002
    starch 8265
    stress 1785

- ***Solanum*** *cont.*
  - tuberous species *cont.*
    - true seeds 9459
    - unreduced gametes 2964, 8241, 8244, 9459
    - wide hybridization 9461
- ***Solanum acaule***
  - cold resistance 2974
  - interspecific hybridization 2974, 10571, 12941
  - restriction fragment length polymorphism, taxonomy 12941
- ***Solanum aculeatissimum***
  - interspecific hybridization 4473
  - protoplast fusion 4473
- ***Solanum americanum***
  - flowers 5664
  - interspecific hybridization 5664
- ***Solanum berthaultii***
  - catechol oxidase 1799
  - interspecific hybridization 1799, 2954, 8282
  - *Leptinotarsa decemlineata* 11843
  - pest resistance 1799
  - plant hairs 1799
  - protoplast fusion 2954
  - restriction fragment length polymorphism
    - insects 8282
    - *Leptinotarsa decemlineata* 8282
    - quantitative traits 8282
- ***Solanum brevidens***
  - *Erwinia carotovora* 2981, 8268, 11837
  - *Erwinia chrysanthemi* 8268
  - interspecific hybridization 3998, 6230, 8268, 10602, 12933
  - potato leaf roll luteovirus 10602
  - potato X potexvirus 10602
  - potato Y potyvirus 10602
  - protoplast fusion 2981, 3998, 6230, 10602, 11837
  - random amplified polymorphic DNA, recombination 12933
  - restriction fragment length polymorphism, recombination 12933
  - wide hybridization 12933
- ***Solanum bulbocastanum***
  - interspecific hybridization 6244, 11810, 12932
  - *Meloidogyne chitwoodi* 6244
  - protoplast fusion 6244, 11810, 12932
- ***Solanum capsicoides,*** chromosome pairing 1037
- ***Solanum chacoense***
  - gene expression, self incompatibility 3553
  - genetic variation
    - isoenzymes 7160
    - quantitative traits 7160
  - genetics
    - potato leaf roll luteovirus 10608
    - regenerative ability 12937
  - glycoalkaloids 11819
  - heritability
    - regenerative ability 12937
    - unreduced gametes 8240
  - interspecific hybridization 607, 5091, 8240, 9459, 11819
  - isoenzymes 5091
  - molecular genetics, self incompatibility 3553
  - multiple alleles
    - glycoproteins 11815
    - self incompatibility 11815
  - nucleotide sequences
    - glycoproteins 11815
    - self incompatibility 8243, 11815
  - polymerase chain reaction
    - glycoproteins 11815
    - self incompatibility 11815
  - restriction fragment length polymorphism 5091
- ***Solanum commersonii***
  - cold resistance 2974, 4003, 8259
  - interspecific hybridization 8259, 10572
  - polyploidy 610
  - protoplast fusion 8259, 10572
  - tissue culture 610
- ***Solanum demissum***
  - embryo sac 2965
  - genetics, *Phytophthora infestans* 8277
- ***Solanum demissum*** *cont.*
  - interspecific hybridization 2965, 2990, 5091, 8277
  - isoenzymes 5091
  - *Phytophthora infestans* 2990
  - restriction fragment length polymorphism 5091
  - sterility 2965
- ***Solanum dulcamara***
  - gene flow 11811
  - interspecific hybridization 11811
  - outcrossing 11811
  - tissue culture 5805
- ***Solanum ehrenbergii,*** interspecific hybridization 1782
- ***Solanum goniocalyx***
  - genetic markers 1781
  - linkage 1781
  - random amplified polymorphic DNA 1781
- ***Solanum gourlayi,*** genetics, potato M carlavirus 7169
- ***Solanum guamuchilense,*** taxonomy 12024
- ***Solanum hirtum,*** sex 5665
- ***Solanum incanum***
  - chloroplast genetics, taxonomy 693
  - interspecific hybridization 689
  - linkage
    - isoenzymes 689
    - morphology 689
- ***Solanum indicum***
  - genetics, inflorescences 4078
  - interspecific hybridization 4078
- ***Solanum integrifolium,*** genetic transformation, *Leptinotarsa decemlineata* 697
- ***Solanum iopetalum***
  - interspecific hybridization 2990
  - *Phytophthora infestans* 2990
- ***Solanum kayamae,*** taxonomy 8738
- ***Solanum khasianum***
  - interspecific hybridization 4473
  - protoplast fusion 4473
- ***Solanum macrocarpon, Meloidogyne*** 695
- ***Solanum maglia,*** nomenclature 2972
- ***Solanum marginatum,*** chloroplast genetics, taxonomy 693
- ***Solanum megistacrolobum***
  - genetics, potato M carlavirus 7169
  - interspecific hybridization 12941
  - restriction fragment length polymorphism, taxonomy 12941
  - taxonomy 12940
- ***Solanum melongena***
  - biotechnology 684
  - breeding
    - reports 1071
    - reviews 5192
  - chloroplast genetics, taxonomy 693
  - chromosome morphology 686
  - combining ability
    - habit 690
    - height 690
    - yield components 3081, 4080, 6283
  - cytoplasmic inheritance, streptomycin 5193
  - ethyl methanesulfonate 5193
  - fruits 696
  - *Fusarium oxysporum* 6283
  - gene banks 4049
  - gene expression
    - anthocyanins 4077
    - flavonoids 4077
    - light 4077
  - genetic resources 6247, 13023
  - genetic transformation 685, 9556
    - *Leptinotarsa decemlineata* 697
  - genetic variance, yield components 10690
  - genetics
    - habit 690
    - height 690
    - inflorescences 4078
    - kanamycin 9556
  - genotype environment interaction, yield components 1847
  - haploidy 686, 688
  - heritability, yield components 691, 4081
  - heterosis
    - habit 690
    - height 690
    - yield components 6283
- ***Solanum melongena*** *cont.*
  - *in vitro* selection, salinity 5194
  - induced mutations, streptomycin 5193
  - interspecific hybridization 685, 689, 4078, 13023
  - *Leucinodes orbonalis* 696
  - linkage
    - isoenzymes 689
    - morphology 689
  - mutagens 5193
  - nucleotide sequences
    - cytochromes 11897
    - proteins 4077
  - pollen germination 8321
  - polymerase chain reaction 9556
  - *Pseudomonas solanacearum* 694, 3082, 4082
  - rootstocks 6247
  - seeds, storage 10688
  - tissue culture 662, 692
  - yield correlations 691, 4081, 10689
- ***Solanum muricatum,*** tissue culture 4196
- ***Solanum nigrum***
  - chloroplast genetics, antibiotics 7540
  - chromosome aberrations 4475
  - chromosome pairing 4475
  - cytoplasmic inheritance, antibiotics 7540
  - evolution 5664
  - gene flow 11811
  - induced mutations, antibiotics 7540
  - interspecific hybridization 11811
  - *N*-methyl-*N*-nitrosourea 7540
  - mutagens 7540
  - outcrossing 11811
  - polyploidy 4475
- ***Solanum oplocense***
  - nitrogen 611
  - nutrients 611
  - tissue culture 611
- ***Solanum phureja***
  - anther culture 8251
  - chromosome addition 2962
  - diseases 8261
  - gene expression
    - isoenzymes 2962
    - patatin 2962
  - genetic markers 1781
  - genetic variation
    - isoenzymes 7160
    - quantitative traits 7160
  - genetics, carotenoids 5097
  - haploidy 2962, 5092, 8239
  - heritability, unreduced gametes 8240
  - interspecific hybridization 607, 2961-2962, 2968, 4001, 5092, 8239-8240, 8255, 8261, 9459
  - linkage 1781
  - plant composition, mathematics 8252
  - protoplast fusion 2955, 8255
  - quality 4001
  - random amplified polymorphic DNA 1781
  - reducing sugars 8255
  - specific gravity, mathematics 8252
- ***Solanum pinnatisectum***
  - interspecific hybridization 12932
  - protoplast fusion 12932
- ***Solanum polyadenium,*** interspecific hybridization 2961
- ***Solanum sessiliflorum***
  - genetic resources 5331
  - heritability
    - fruits 5331
    - quality 5331
    - yields 5331
- ***Solanum sisymbriifolium***
  - chromosome morphology 687
  - chromosome number 687
  - interspecific hybridization 685
  - *Meloidogyne* 695
- ***Solanum sodomeum,*** genetic transformation 4087
- ***Solanum sparsipilum***
  - nitrogen 611
  - nutrients 611
  - tissue culture 611
- ***Solanum spegazzinii***
  - gene location
    - *Globodera pallida* 12946
    - *Globodera rostochiensis* 5117
  - genetics, *Globodera pallida* 12946

Solanum spegazzinii *cont.*
- interspecific hybridization 2961, 5117, 12946
- restriction fragment length polymorphism
  - *Globodera pallida* 12946
  - *Globodera rostochiensis* 5117

Solanum stenotomum
- genetics, carotenoids 5097
- interspecific hybridization 2968
- plant composition, mathematics 8252
- specific gravity, mathematics 8252

Solanum stoloniferum
- cell culture 1789
- embryo sac 2965
- genetic transformation 1789
- genetics, *Phytophthora infestans* 8277
- interspecific hybridization 1782, 2965, 8277
- photoperiodism 5095
- sterility 2965

Solanum tarijense
- interspecific hybridization 5091
- isoenzymes 5091
- restriction fragment length polymorphism 5091

Solanum toralapanum, taxonomy 12940

Solanum torvum
- chromosome morphology 687
- chromosome number 687
- interspecific hybridization 2954
- *Meloidogyne* 695
- protoplast fusion 2954, 2985
- *Pseudomonas solanacearum* 694
- *Verticillium dahliae* 2985

Solanum tuberosum
- aging 10573
- *Alternaria alternata* 5109
- *Alternaria solani* 8274, 10593, 11838
- artificial selection 2947, 2958-2959
  - *Globodera pallida* 3006-3007
  - *Globodera rostochiensis* 3006
  - mechanical damage 4009
  - plant disorders 4009
  - quality 2970-2971, 12939
  - yield components 2946, 10579
- ascorbic acid 9467
- black spot 1795, 10609
- *Botrytis cinerea* 5109
- breeding 599, 1774, 2943-2945, 6228, 8234, 9448, 10564, 11789-11790, 11813, 11820, 11824
  - conferences 13411
  - history 598
  - reports 600
  - reviews 10565
- canopy 7159
- carotenoids 4004
- catechol oxidase 1799
- cell culture 1788, 5100
- cell division 2963
- chimaeras 6231
- chlorophyll 4004, 9465
- chloroplast genetics 1780, 9454
  - yields 1779
- chromosome aberrations 11823
- chromosome addition 2962
- chromosome number 11830
- *Clavibacter michiganensis* 8269, 8271, 10595-10597, 11836
- cold resistance 2974, 4003-4004, 6238, 8259
- combining ability 2947
  - *Fusarium solani* 8272
  - *Gibberella cyanogena* 8272
  - mechanical damage 1796, 8258
  - *Phytophthora infestans* 8276
- competitive ability 9449
- crop density 5104
- *Deroceras reticulatum* 8281
- diploidy 5097, 8242
- diseases 613, 7165, 8261-8262, 10592
  - conferences 13411
- DNA 5090, 12930
- dormancy 9463, 12935
- drought resistance 2975, 7163-7164, 11832
- *Erwinia* 2986-2987, 11836
- *Erwinia carotovora* 2980-2981, 4007, 5109, 5111, 8264-8266, 8268, 10593, 11837
- *Erwinia chrysanthemi* 8265, 8268

Solanum tuberosum *cont.*
- *N*-ethyl-*N*-nitrosourea 10582
- evolution 1793, 11829
- experimental design 2943
- fertility 8249
- flowering 8249
- fluorescence 9474
- foliage area 7159
- *Fusarium* 11838
- *Fusarium oxysporum* 8264
- *Fusarium solani* 8264
- gamma radiation 1788, 4009, 5090, 5100
- gene banks 1787, 2283, 10563
- gene expression 2953, 3579, 9997
  - amylose 6233
  - carbohydrates 6236
  - cecropin 4005
  - chitinase 6229
  - cold resistance 8260
  - cucumber mosaic cucumovirus 4480
  - epoxide hydrolase 11800
  - *Erwinia carotovora* 2979, 4005
  - genetic transformation
    - glucose-1-phosphate adenylyltransferase 10566
    - starch 10566
    - stomata 10566
  - β-glucanase 6229
  - glycogen (starch) synthase 10585
  - hydroxymethylglutaryl-CoA reductase 10576
  - indoleacetate-lysine synthetase 10570
  - injuries 10590
  - isoenzymes 2962
  - lipoxygenase 10590
  - lysozyme 4005
  - NADH dehydrogenase (ubiquinone) 10569, 11803
  - patatin 2962, 8238, 10577
  - photosynthesis 1778, 11821
  - *Phytophthora infestans* 5838
  - potato X potexvirus 4480, 6243
  - potato Y potyvirus 4480
  - proteinase inhibitors 3995
  - pyrophosphate:fructose-6-phosphate 1-phosphotransferase 8248
  - ribosomes 5089
  - Rieske FeS protein 9453
  - source sink relations 6232, 10577
  - starch 10575, 10585, 11821
  - starch phosphorylase 608
  - starch synthase 4017, 6233, 11804
  - sucrose 3999
  - sucrose transporter 8246
  - sugars 10575
  - translocation 3999
  - tubers 10575
  - ubiquitin 5089
  - viruses 10607
- gene flow 6354, 11811, 12929
- gene location
  - colour 5096
  - flowers 5096
  - *Phytophthora infestans* 7166
- gene mapping
  - *Globodera rostochiensis* 11834
  - *Phytophthora infestans* 11834
  - potato X potexvirus 11834
  - potato Y potyvirus 11834
- genetic engineering 2342, 4577, 9455
  - carbohydrates 6236
  - DNA binding proteins 13209
  - epoxide hydrolase 11800
  - pathogens 11835
  - ribosomes 5089
  - source sink relations 7686
  - ubiquitin 5089
- genetic markers 1781, 2343, 9458
  - isoenzymes, reviews 145
- genetic resources 601, 1793, 6228, 10563, 10592, 11791, 12927
  - history 612
- genetic transformation 2951, 2966, 5088, 6354, 9997, 12929
  - *Agrobacterium rhizogenes* 5109
  - *Agrobacterium tumefaciens* 7602
  - amylose 6233
  - carbohydrates 3994
  - cecropin 4005-4006
  - cucumber mosaic cucumovirus 4480

Solanum tuberosum *cont.*
- genetic transformation *cont.*
  - *Erwinia carotovora* 2979, 2983, 4005-4006, 6239
  - fructans 10574
  - β-fructofuranosidase 11192
  - fructosyltransferase 10574
  - glycogen (starch) synthase 10585
  - indoleacetate-lysine synthetase 10570
  - injuries 10590
  - lipoxygenase 10590
  - lysozyme 4005, 6239
  - photosynthesis 7202, 9464, 11821
  - *Phthorimaea operculella* 3013
  - *Phytophthora infestans* 2994
  - plastocyanins 7202
  - potato leaf roll luteovirus 12944
  - potato X potexvirus 4480, 5115
  - potato Y potyvirus 4480, 10600
  - pyrophosphate:fructose-6-phosphate 1-phosphotransferase 8248
  - starch 10585, 11821
  - starch synthase 4017, 6233, 11804
  - sucrose synthase 11192
  - sucrose transporter 8246
  - sulfate adenylyltransferase 10568
  - *Verticillium* 8273
  - viruses 10607
  - yield components 11806
- genetic variance, *Pseudomonas solanacearum* 2984
- genetic variation
  - isoenzymes 7160
  - quantitative traits 7160
- genetics 11808, 11812-11813
  - carotenoids 5097
  - colour 5096
  - conferences 13411
  - flowers 5096
  - *Globodera pallida* 3009, 7170
  - *Globodera rostochiensis* 2956, 2978
  - heat resistance 8267
  - herbicides 2956
  - male sterility 8244
  - *Phytophthora infestans* 7166, 8277
  - potato leaf roll luteovirus 12945
  - potato leafroll luteovirus 615
  - potato Y potyvirus 7169
  - *Pseudomonas solanacearum* 8267
  - reducing sugars 1791
  - *Synchytrium endobioticum* 2978
  - tubers 1786
- genotype environment interaction
  - fibre 11826
  - *Globodera pallida* 9478
  - glycoalkaloids 10587
  - statistics 5103
  - yield components 10591
  - yields 2973, 9471
- *Globodera* 2975
- *Globodera pallida* 3008, 3010-3012, 10592, 11842
- *Globodera rostochiensis* 3010-3012, 10592, 11842
- glycoalkaloids 9465, 10586, 11819, 12934
- glycoproteins, immunology 11814
- glycosides 3010
- growth period 8249, 11831
- gynoecium, immunology 11814
- haploidy 1775, 2957-2962, 2964, 5092-5094, 8237, 8239, 8244, 9458, 10581, 11812, 12463
- harvesting 11831
- heat 10588
- heat resistance 5107, 10591
- *Helminthosporium solani* 9476
- herbicides 12581, 12938
- heritability
  - *Alternaria solani* 6240
  - quality 8253
  - yield components 10579
- heterosis, yield components 9456
- heterozygosity 8242
- *in vitro* culture 6235, 10584
- *in vitro* selection
  - *Alternaria solani* 5113, 6241
  - anthocyanins 5100
  - *Phytophthora infestans* 2995
  - tryptophan 8254
- inbreeding depression 1775

Solanum tuberosum cont.
- induced mutations
  - anthocyanins 1788
  - mechanical damage 4009
  - plant disorders 4009
  - starch 2969
- injuries 1795
- insects 11844
- interspecific hybridization 1799, 2954, 2961-2962, 2968, 2974, 2990, 2997, 3998, 4001, 5086, 5091-5092, 5117, 6230, 6244, 7168, 8239, 8244, 8255, 8259, 8261, 8265, 8268, 8277, 8282, 9459, 10571-10572, 10602, 11810-11811, 11819, 12932-12933, 12946
- isoenzymes 2343, 5091
- leaves 7163-7164
- *Leptinotarsa decemlineata* 7171
- light 4004, 9465, 12934
- linkage 1781
  - tubers 1786
- *Macrophomina phaseolina* 12942
- *Macrosiphum euphorbiae* 8263
- male sterility 8249
- mechanical damage 5108, 11833
- *Meloidogyne* 11842
- *Meloidogyne chitwoodi* 6244
- metribuzin 12938
- mitochondria 6238
- mitochondrial genetics 10567, 11802
  - evolution 9976
  - formate dehydrogenase 606
  - NADH dehydrogenase (ubiquinone) 10569, 11803
  - ribosomes 12931
- molecular genetics 2953, 3579, 11801, 11812
  - 1,4-α-glucan branching enzyme 604
  - cold resistance 8260
  - cysteine proteinase 8247
  - fructokinase 603
  - glucose-6-phosphate dehydrogenase 7158
  - injuries 10590
  - lipoxygenase 10590
  - maturase 5087
  - patatin 8238
  - proteinase inhibitors 605
  - reviews 2952
  - source sink relations 6232
  - starch 2969
  - starch phosphorylase 608
  - sulfate adenylyltransferase 10568
  - tubers 8247
- morphology 11818
- mutagens 10582
- mutations
  - atrazine 4012
  - herbicides 4012
- *Myzus persicae* 8263
- nitrates 9467
- nitrogen 611
- nucleocytoplasmic interaction, male sterility 8244
- nucleotide sequences 11802
  - chitinase 6229
  - epoxide hydrolase 11800
  - β-glucanase 6229
  - glucose-1-phosphate adenylyltransferase 10566
  - glycine dehydrogenase (decarboxylating) 9452
  - phosphoenolpyruvate carboxylase 3996
  - photosynthesis 1778
  - proteinase inhibitors 3995
  - ribosomes 5089, 12931
  - Rieske FeS protein 9453
  - sulfate adenylyltransferase 10568
  - ubiquitin 5089
- nutrients 611, 6237, 8257
- outcrossing 6354, 8245, 11811
- pectins 10588
- periderm 4000
- pest resistance 1799
- pests 613
  - conferences 13411
- phosphorus 6237
- photoperiodism 609, 5095

Solanum tuberosum cont.
- *Phthorimaea operculella* 4010-4011, 9479
- *Phytophthora infestans* 1798, 2990-2993, 2996-2997, 5114, 6242, 7165, 7167-7168, 8274, 8278-8279, 11839
- plant hairs 1799, 7171
- plant introduction, history 5085
- planting date 11831
- planting depth 5105
- pollen 2964
- polymerase chain reaction 4795
- polyploidy 5093, 6231
- potato leaf roll luteovirus 8263, 10602-10604
  - reviews 10601
- potato leafroll luteovirus 2998-3000, 3004, 4008, 7169, 11841
- potato M carlavirus 3000, 7169
- potato S carlavirus 3002, 3005, 10606
- potato spindle tuber viroid 614, 12943
- potato X potexvirus 2999, 3002-3003, 3005, 8280, 9477, 10602, 10605-10606
  - reviews 10601
- potato Y potyvirus 2999-3002, 3005, 7169, 8280, 9477, 10602, 10605-10606
  - reviews 10601
- protoplast fusion 2954-2956, 2981, 2985, 3998, 6230, 6244, 8237, 8255, 8259, 9456, 10572, 10602, 11810, 11837, 12463, 12932
- protoplasts 1788, 2968, 3003
- *Pseudomonas solanacearum* 5110, 5112, 7165, 10594, 11836
- *Pseudomonas syringae* 3065
- quality 4001, 5108, 9468-9470, 10586, 11827-11828
- quantitative genetics, mathematics 11807
- random amplified polymorphic DNA 1781, 2343, 8237
  - variety classification 3997
- reducing sugars 8255
- restriction fragment length polymorphism 2343, 4795, 5091
  - *Globodera rostochiensis* 2976, 11834
  - insects 8282
  - *Leptinotarsa decemlineata* 8282
  - *Phytophthora infestans* 7166, 11834
  - potato X potexvirus 2976, 11834
  - potato Y potyvirus 11834
  - quantitative traits 8282, 11805
  - variety classification 8236
- *Rhizoctonia solani* 1797
- salinity 9472
- seeds 11790
- sodium azide 10582
- somaclonal variation 2966, 11825
  - chromosome number 1790
  - *Erwinia carotovora* 1792
  - esterases 9466
  - flowers 7161
  - injuries 1792
  - isoenzymes 9466
  - plant composition 10580
  - quality 1792
  - tubers 10580
  - yield components 5102
- *Spongospora subterranea* 8275
- sprouting 10573
- stability 1794, 5106
  - yields 9471
- starch 8265, 12938
- storage 12927
- *Streptomyces aureofaciens* 8270
- *Streptomyces scabies* 2982
- stress 2975, 2977, 9473-9475
- sugars 6238
- *Synchytrium endobioticum* 2988
- temperature 4004, 9463
- tissue culture 609, 611, 1788, 2967, 5093, 5099, 5101, 5837, 7162, 8250, 10581-10583, 11822-11824, 12930, 12936
- tobacco mosaic tobamovirus 3003
- *Trialeurodes vaporariorum* 616
- true seeds 2944, 5098, 10578, 11817, 11820
- tubers 4000, 5098, 5101, 9462, 10581-10583, 11816, 11818, 11822

Solanum tuberosum cont.
- unreduced gametes 1783, 2964, 5086, 5094, 8242, 8244
- uracil-DNA glycosylase 3565
- varieties 12928
- variety classification 145
- variety trials 600, 9449, 11792-11793
  - databases 8235
  - statistics 5103
- *Verticillium albo-atrum* 10599
- *Verticillium dahliae* 2985, 2989, 10593, 10598-10599, 11838
- viruses 2342, 5116, 7165
  - reviews 11840
- water balance 9473
- wide hybridization 3010, 8242, 12933
- X radiation 2969
- yield correlations 6234
- varieties 600, 2949, 9450
  - Aistės 2950
  - Arinda 11795
  - Banana 1776
  - Délice 11795
  - Doufine 11795
  - Duchesse 11795
  - Fontenot 602
  - Francine 11795
  - Genesee 9451
  - MaineChip 11798
  - Matilda 11797
  - Mėta 2950
  - Nida 2950
  - Noisette 11795
  - Pompadour 11796
  - Prestile 11799
  - Red Cloud 1777
  - Remarka 11795
  - Russet Bake-King 11816
  - Tsukanovskiĭ 11794
  - Vilnia 2950
  - Vokė 2950

Solanum vernei
- cell culture 1789
- genetic transformation 1789
- interspecific hybridization 2968
- protoplast fusion 2955

Solanum villosum
- flowers 5664
- interspecific hybridization 5664

Solanum warscewiczii, Meloidogyne 695

***Solanum* (×) *Lycopersicon*,** protoplast fusion 2954, 4059, 5090, 5174, 7217, 9457

***Solanum* (×) *Nicotiana*,** protoplast fusion 925

Solar radiation
- *Beta vulgaris,* sugarbeet 9708
- *Hordeum vulgare* 6827

Somaclonal variation 2389, 3559, 5807, 12451-12452
- *Actinidia deliciosa* 8432
- *Agropyron* × *Triticum* 12539
- *Alhagi kirghisorum* 5669
- *Allium,* chromosome aberrations 9504
- *Allium fistulosum,* chromosome aberrations 9504
- *Allium sativum* 5142
- *Aloe barbadensis,* DNA 3427
- *Armoracia rusticana* 7560
- *Asparagus officinalis* 8319
- *Begonia hiemalis* 4387
- *Beta vulgaris,* sugarbeet 4280
- *Brassica juncea,* restriction fragment length polymorphism 826
- *Brassica napus,* rape 5369
- *Bromus inermis* 2812
- *Caladium hortulanum*
  - colour 7536
  - variegation 7536
- *Crocus sativus,* chromosome number 9929
- *Cucumis melo*
  - *Meloidogyne* 1857
  - polyploidy 1857
- *Cynara scolymus*
  - leaves 12990
  - morphology 12990
- *Daucus carota*
  - *Alternaria dauci* 4016
  - carotenes 7174
- *Eleusine coracana,* regenerative ability 10332

- **Somaclonal variation** *cont.*
  - *Fragaria ananassa* 3149
    - *Alternaria alternata* 11997
  - *Glycine max*
    - quality 8157
    - yield components 8157
  - *Gossypium hirsutum*
    - chromosome aberrations 9740
    - chromosome number 9740
  - *Helianthus annuus* 846
  - *Hordeum vulgare*
    - awns 11385
    - *Erysiphe graminis* 11385
    - growth period 11385
    - height 11385
    - yield components 11385
  - *Humulus lupulus* 11115
  - *Linum usitatissimum,* flax 12451
  - *Lycopersicon esculentum*
    - *Clavibacter michiganensis* 4073
    - morphology 7225
    - tobacco mosaic tobamovirus 1845, 11896
  - *Malus pumila* 3107
    - *Erwinia amylovora* 13052
    - isoenzymes 4126
    - regenerative ability 13049
    - rooting capacity 13049
  - *Medicago sativa,* DNA 3912
  - *Mentha arvensis* 3434
  - *Miscanthus × Saccharum* 2008
  - *Musa* 1912, 4173
    - *Fusarium oxysporum* 12010
  - *Oryza sativa* 1571, 2752, 6040, 10342
    - growth period 427
    - height 2747
    - morphology 427
    - seeds 2746
    - yield components 1574
  - *Pennisetum glaucum, Sclerospora graminicola* 6007
  - *Petunia,* haploidy 4438
  - *Populus*
    - leaves 12189-12190
    - *Melampsora* 4350
    - morphology 4350
    - photosynthesis 12189
  - *Populus nigra, Mycosphaerella populorum* 8610
  - *Populus trichocarpa, Mycosphaerella populorum* 8610
  - *Populus xiaohei* 2119
  - *Prunus* 3107
  - *Prunus persica* 5261
  - *Pyrus communis* 3107
  - *Rhododendron* 3375
  - *Rosa hybrida* 6567
  - *Saccharum*
    - drought resistance 7375
    - quality 7375
  - *Saccharum officinarum,* yield components 887
  - *Saintpaulia ionantha* 4387
  - *Santalum album*
    - height 1060
    - mycoplasma-like organisms 1060
    - wood properties 1060
  - *Secale cereale* 1384, 10209
  - *Solanum tuberosum* 2966, 11825
    - chromosome number 1790
    - *Erwinia carotovora* 1792
    - esterases 9466
    - flowers 7161
    - injuries 1792
    - isoenzymes 9466
    - plant composition 10580
    - quality 1792
    - tubers 10580
    - yield components 5102
  - *Trifolium alexandrinum,* chromosome number 7053
  - *Trifolium pratense,* molecular genetics 3922
  - triticale 4802, 11285
    - aluminium 10065
    - toxic substances 10065
    - yield components 300
  - *Triticum aestivum* 1309
    - gliadin 2509, 7774
    - glutenins 7774
    - mitochondrial genetics 6743
- **Somaclonal variation** *cont.*
  - *Triticum aestivum cont.*
    - photorespiration 12536
    - quality 10073
    - ribulose-bisphosphate carboxylase 12536
    - yield components 8894, 10111
  - *Triticum durum*
    - drought resistance 12562
    - *Fusarium culmorum* 2533
    - *Gibberella zeae* 2533
  - *Vitis vinifera* 10790
    - anthocyanins 5292
  - *Zea mays* 2685, 7939
    - esterases 9100
    - peroxidases 9100
    - polyploidy 322
  - *Zinnia marylandica* 4429
- **Somatic hybridization** (*see* Protoplast fusion)
- **Sorbitol,** *Prunus domestica* 11962
- ***Sorbus***
  - apomixis 7453
  - taxonomy 8628
  - viruses 8398
- ***Sorghum***
  - combining ability, cyanogens 11526
  - embryo culture 6936
  - forage 3564
  - genetic resources 1473
  - mitochondrial genetics, cytoplasmic male sterility 10307
  - tissue culture 9172
  - varieties, Senokosnyĭ 2413
- ***Sorghum almum***
  - breeding 10305
  - forage 10305
  - *Spodoptera frugiperda* 6952
- ***Sorghum bicolor***
  - aluminium 1485, 3777
  - anther culture 5993
  - artificial selection 11518
    - growth period 7979
    - salinity 3776
  - *Atherigona soccata* 363, 2715-2716, 4873, 7980, 9180, 11519
  - biotechnology 1475
  - birds 364, 1484
  - *Blissus leucopterus leucopterus* 1488
  - breeding 353, 1472, 11280
    - history 2706
  - *Cajanus cajan,* crop mixtures 3977, 6213, 7139
  - calcium 4866-4867
  - *Calocoris angustatus* 10313
  - canopy 9175
  - *Cercospora sorghi* 6946
  - *Chilo partellus* 2717, 4873, 11519
  - chlorophyll 4871
  - chloroplast genetics 5846
    - cytoplasmic male sterility 6922
    - photosynthesis 331, 12471
    - ribulose-bisphosphate carboxylase 12471
  - chromosome translocation 6920
  - *Claviceps africana* 9179
  - cleistogamy 9179
  - *Cochliobolus lunatus* 6947
  - *Colletotrichum graminicola* 2712, 6946, 6949
  - combining ability
    - *Cercospora sorghi* 1486
    - forage 4862
    - germination 7977
    - growth period 3773
    - hydrogen cyanide 11523
    - leaves 4862
    - *Ramulispora sorghi* 1486
    - *Ramulispora sorghicola* 1486
    - yield components 3772-3773, 4863, 5992, 6932-6933
  - *Contarinia sorghicola* 361-362, 1489, 2713, 4872, 10312, 10315
  - crop density 4869, 6941
  - cytoplasmic male sterility 1476, 3772, 6921, 6923-6924, 6926-6929, 6945, 10315
  - databases 6913
  - development 2709
  - *Diatraea saccharalis* 6951
  - diethyl sulfate 6931
- ***Sorghum bicolor*** *cont.*
  - digestibility 1484, 4864
  - diseases 6921, 6942
  - *Diuraphis noxia* 10314
  - drought resistance 5998, 9178
  - embryo culture 6935-6936
  - endosperm 358, 1484
  - energy resources 6940
  - ethyl methanesulfonate 6931
  - *Eublemma gayneri* 12697
  - experimental design 6914
  - flowering 1482
  - forage 4650, 5994
  - *Fusarium* 12696
  - *Fusarium pallidoroseum* 6947
  - gene banks 1474
  - gene dosage
    - development 12692
    - phytochrome 12692
  - gene expression 5846
    - *Agrobacterium tumefaciens* 2708
    - dehydrin 5997
    - desiccation 5997
    - heat shock 12466
    - NAD(P)H-plastoquinone-oxidoreductase 12465
    - phosphoenolpyruvate carboxylase 12466
    - photosynthesis 331, 12471
    - proteins 6918
    - quality 9174
    - ribulose-bisphosphate carboxylase 12466, 12471
    - sucrose synthase 9174
  - gene mapping 7900, 7975-7976
  - genetic resources 353, 6722, 7973, 9169, 11280
  - genetic transformation 356
    - *Agrobacterium tumefaciens* 2708
    - phosphinothricin acetyltransferase 4861
  - genetic variance
    - *Atherigona soccata* 10316
    - development 7978
    - flooding 360
    - germination 360
    - inflorescences 354
  - genetics
    - *Atherigona soccata* 10316
    - *Cochliobolus lunatus* 2710
    - *Colletotrichum graminicola* 6950
    - drought resistance 11530
    - *Gibberella fujikuroi* 2710
    - photosynthesis 11530
  - genotype environment interaction
    - quality 359
    - yields 359, 3775
  - genotype mixtures 10312
  - germplasm releases 6912, 11517
    - *Contarinia sorghicola* 3780
    - *Gibberella fujikuroi* 3778
    - male sterility 11522
    - *Peronospora sorghi* 3778
    - senescence 1481
  - *Gibberella* 12696
  - *Gibberella fujikuroi* 1487, 6930, 6947
  - *Gloeocercospora sorghi* 6946
  - glycosides 4873
  - hard seeds 6939
  - heat sums 1482
  - *Helicoverpa armigera* 6953
  - herbicides 7981
  - heritability
    - development 7978
    - flooding 360
    - germination 360, 7977
  - heterosis
    - *Cercospora sorghi* 1486
    - drought resistance 1111
    - *Ramulispora sorghi* 1486
    - *Ramulispora sorghicola* 1486
    - yield components 3772, 10308
  - hybrid seed production 1231, 6923
  - hydrogen cyanide 6955
  - immunology, NAD(P)H-plastoquinone-oxidoreductase 12465
  - induced mutations 6919
    - cork 6931
    - drought resistance 11529
    - epidermis 6931
    - male sterility 6925

Sorghum bicolor *cont.*
- induced mutations *cont.*
  - waxes 6931
- inflorescences 12697
- interspecific hybridization 1483, 2413, 4857, 4860, 6934, 7975, 9172, 10305, 11526
- kafirin 358
- leaves 363, 9175
  - mathematics 1477-1478
- linkage 7900
  - *Acremonium strictum* 6948
  - lysine 6937
  - male sterility 6925
  - *Peronosclerospora sorghi* 6948
  - *Sphacelotheca reiliana* 6948
- lodging 2713
- lysine 357, 11527
- *Macrophomina phaseolina* 4871, 6943, 12696
- manganese 9176
- mitochondrial genetics 6916
- molecular genetics, evolution 6735
- mutagens 6931
- mutations
  - development 12692
  - phytochrome 12692
- nitrate reductase 9177
- nitrogen 4868, 9175
- nucleotide sequences, proteins 6918
- nutrients 1485, 2709, 4866-4868, 9176
- nutritive value 9173, 11524-11525, 11528
- *Oligonychus pratensis* 2714
- pathogenesis-related proteins 12695
- phenolic compounds 364
- plant composition 3774
- pollen 6926
- pollen germination 12691
- pollination 1476, 11521
- potassium 2709
- prolamins 12695
- proteins 357, 6938
- protoplasts 356
- quality 3774, 4865, 6734, 6939, 10309, 12474
- *Ramulispora sorghi* 6946, 10310
- random amplified polymorphic DNA 6917, 7975
  - *Acremonium strictum* 6948
  - *Peronosclerospora sorghi* 6948
  - *Sphacelotheca reiliana* 6948
- restriction fragment length polymorphism 6916-6917, 7975-7976, 12694
  - *Acremonium strictum* 6948
  - cytoplasmic male sterility 6922
  - drought resistance 11529
  - *Peronosclerospora sorghi* 6948
  - *Sphacelotheca reiliana* 6948
- *Rhopalosiphum maidis* 12697
- roots 9176
- salinity 4870, 5996, 9177
- *Schizaphis graminum* 6954, 9181
- seed testing 6930
- senescence 1480
  - mathematics 1479
- *Setosphaeria turcica* 2711, 10311
- silage 6058-6059, 6734, 11525
- soil pH 3777, 4867, 5996, 9176
- *Sphacelotheca reiliana* 6944-6945
- *Spodoptera frugiperda* 3779, 6952
- stability 5995
- storage, pollen 12691
- *Striga* 6955
- *Striga hermonthica* 9182
- sugars 4871, 6955
- tannins 357
- temperature 7977
- tissue culture 6935, 12693
- toxic substances 1485, 3777
- ultraviolet radiation 6919
- variety trials 3564, 4858-4859, 6915
- weathering 6930
- wide hybridization 12690
- yield components 6914, 6921, 6928-6929, 11528
- yield correlations 355, 6934, 9170-9171
- varieties 4646, 4860, 6912
  - Della 10306
  - Istmeño 2707
  - SPV1015 11519

Sorghum dochna, interspecific hybridization 11526

Sorghum halepense
- interspecific hybridization 6934, 10305
- *Spodoptera frugiperda* 6952
- yield correlations 6934

Sorghum propinquum
- forage 7974
- gene mapping 7975
- interspecific hybridization 7975
- random amplified polymorphic DNA 7975
- restriction fragment length polymorphism 7975
- varieties, Mingfu-1 7974

Sorghum sudanense
- breeding 4857
- interspecific hybridization 1483, 2413, 4857, 4860, 9172, 11526
- varieties 4860

Sorghum versicolor, polyploidy 11520

Sorghum × Saccharum, intergeneric hybridization 6440

Sorosporium (*see also Sphacelotheca; Tolyposporium)*

Sorosporium paspali-thunbergii, *Paspalum scrobiculatum* 8096

Sorosporium paspali-thunbergii, *Paspalum scrobiculatum* 10419

Source sink relations
- *Arabidopsis thaliana,* genetic engineering 7686
- *Beta vulgaris,* sugarbeet, gene expression 8526
- genetic transformation 11192
- *Glycine max* 12845
  - artificial selection 6136
- *Helianthus tuberosus* 7187
- *Hordeum × Triticum* 6730
- *Nicotiana plumbaginifolia*
  - genetic transformation 6487
  - mutations 8554
  - pleiotropy 8554
- *Nicotiana tabacum*
  - gene expression 6232
  - genetic engineering 7686
  - molecular genetics 6232
- *Oryza sativa* 9206
- *Pisum sativum* 11760
  - induced mutations 8195
- *Solanum tuberosum*
  - gene expression 6232, 10577
  - genetic engineering 7686
  - molecular genetics 6232
- *Trifolium repens* 4952
- *Triticum aestivum* 1298, 4695, 6753
  - pleiotropy 1291
- *Triticum urartu* 4695
- *Vigna* 6218
- *Vigna radiata* 6218
- *Zea mays* 9117, 11493

Sowing
- *Arachis hypogaea* 12085
- *Cajanus cajan* 10544
- *Lespedeza cuneata* 3934

Sowing date
- *Beta vulgaris,* sugarbeet 13182-13183
- *Brassica campestris,* toria, genotype environment interaction 6351
- *Cajanus cajan* 579
- *Cicer arietinum* 3972, 6206, 11771
  - yield components 568
- *Glycine max* 1706, 10454, 11703
- *Gossypium arboreum, Amrasca biguttula biguttula* 10981
- *Gossypium hirsutum, Amrasca biguttula biguttula* 10981
- *Helianthus annuus* 5390-5391, 7349
- *Hordeum vulgare* 6839-6840, 7851, 11387
- *Hyoscyamus muticus* 2222
- *Lens culinaris* 11766
- *Pennisetum glaucum* 378, 12702
- *Phaseolus vulgaris* 7100
- *Triticum aestivum* 4669, 4673, 5872, 5882, 5887, 6758, 8912
- *Zea mays* 341, 1461
  - sweetcorn 9106

Soybean mosaic potyvirus
- *Glycine max* 2873-2874, 4995, 11731
  - genetics 526, 3953, 9375

Soybean mosaic potyvirus *cont.*
- *Glycine max cont.*
  - restriction fragment length polymorphism 8164

Soybean yellow mosaic virus, *Glycine max* 8163

Spacing (*see* Crop density)

Spartina alterniflora, varieties, Bayshore 9266

Spathoglottis plicata
- fertility 8710
- pollination 8710

Spathoglottis × Phaius, intergeneric hybridization 8710

Speciation (*see* Evolution)

Specific gravity
- *Picea engelmannii,* heritability 2144
- *Picea glauca,* heritability 2144
- *Solanum phureja,* mathematics 8252
- *Solanum stenotomum,* mathematics 8252

Spectinomycin adenyltransferase
- *Lycopersicon esculentum*
  - genetic markers 11880
  - genetic transformation 11880
  - transposable elements 11880
- *Nicotiana tabacum*
  - genetic markers 11880
  - genetic transformation 11880
  - transposable elements 11880

Sphacelotheca destruens, *Panicum miliaceum* 3782

Sphacelotheca reiliana
- *Sorghum bicolor* 6944-6945
  - linkage 6948
  - random amplified polymorphic DNA 6948
  - restriction fragment length polymorphism 6948
- *Zea mays* 345
  - genetic variance 6903

Sphaeralcea coccinea, germplasm releases, forage 3935

Sphaeralcea munroana, germplasm releases, forage 3936

Sphaeropsis (*see also Botryosphaeria)*

Sphaerotheca fuliginea
- *Cucumis melo* 3088, 11906
- *Cucumis sativus* 5216-5217
- *Cucurbita,* combining ability 13039
- *Cucurbita moschata* 11922
- *Cucurbita pepo* 3094

Sphaerotheca mors-uvae
- *Ribes canadensis,* genetics 1901
- *Ribes nigrum,* genetics 1901

Sphaerotheca pannosa
- *Prunus persica* 11983
- *Rosa* 9855

Sphaerulina (*see also Cercospora)*

Sphenophorus parvulus
- *Elymus* 4928
- *Psathyrostachys juncea* 4928
- Triticeae 4928

Sphenostylis
- chloroplast genetics, taxonomy 12925
- morphology 12925
- restriction fragment length polymorphism, taxonomy 12925

Spice plants
- genetic resources 1227
- *in vitro* culture 9927
- tissue culture 6611

Spikelets
- *Elymus trachycaulus,* genetics 10406
- *Oryza sativa*
  - heritability 6974
  - heterosis 6974
- *Triticum aestivum*
  - gene location 11325
  - genetic transformation 11310
- *Triticum monococcum,* induced mutations 3620
- *Zea*
  - gene expression 10263
  - mutations 10281
  - transposable elements 10263
- *Zea mays*
  - gene expression 10263
  - transposable elements 10263

Spilarctia obliqua
- *Helianthus annuus* 849
- *Vigna mungo* 9445

Spilocaea*, *Pyracantha 4405
Spinacea oleracea
  genetic engineering, plastocyanins 7202
  mutations, plastocyanins 7202
Spinacia oleracea
  Albugo occidentalis 10648
  chloroplast genetics 1820, 4039, 6255, 12976
    adenosinetriphosphatase 10646
    chloroplasts 9201
  chromosome morphology 5156
  combining ability, yield components 648
  DNA 8865
  flowers 1822
  gene expression 1820, 4039
    acetohydroxy acid isomeroreductase 10647
    adenosinetriphosphatase 10646
    betaine-aldehyde dehydrogenase 12146
    chloroplasts 9201
    heat shock proteins 645, 11869
    NAD(P)H-plastoquinone-oxidoreductase 12465
    nitrite reductase 4037
    photosynthesis 8310, 12977
    plastocyanins 7201
    ribulose-bisphosphate carboxylase activase 5155
    sucrose phosphate synthase 3050, 6256
    superoxide dismutase 9522
  genetic engineering
    betaine-aldehyde dehydrogenase 12146
    nitrite reductase 4037
    photosynthesis 8310, 12977
  genetic transformation
    acetohydroxy acid isomeroreductase 10647
    ribulose-bisphosphate carboxylase activase 5155
  genetics, *Peronospora spinaciae* 1069
  immunology
    fructose-bisphosphatase 8194
    NAD(P)H-plastoquinone-oxidoreductase 12465
  molecular genetics 4038
    O-acetylserine (thiol) lyase 646
    cysteine synthase 647
    heat shock proteins 645
    photosynthesis 2602
    plastocyanins 7201
    proteins 1821
    sucrose phosphate synthase 3050
  nucleotide sequences 4038
    fructose-bisphosphatase 8194
    heat shock proteins 8309, 11868
    3-ketoacyl-acyl carrier protein synthase III 6254
    nucleoside diphosphate kinase 3049
    phosphoglycerate kinase 9523
    proteins 9524
    sucrose phosphate synthase 6256
    superoxide dismutase 9522
  Peronospora farinosa 10648
  Peronospora farinosa f.sp. *spinaciae* 12978
  polymerase chain reaction 12976
    proteins 9524
  sex 1822
  tissue culture 4040
  varieties, Lu Hai 9521
***Spinacia* (×) *Nicotiana*,** protoplast fusion 3281
Spines
  Rubus, blackberries 7283
  Rubus vestitus 9591
Spiranthes lacera
  interspecific hybridization 1027
  taxonomy 1027
Spiranthes romanzoffiana
  interspecific hybridization 1027
  taxonomy 1027
Spodoptera exigua
  Apium graveolens 649-650, 9526-9527, 10649
  Apium nodiflorum 650
  Apium prostratum 650
  Lycopersicon esculentum 13021
  Lycopersicon hirsutum 8354
Spodoptera exigua *cont.*
  Lycopersicon pennellii 9554
  Lycopersicon pimpinellifolium 13021
Spodoptera frugiperda
  Arachis 868
  Cynodon dactylon, germplasm releases 9262
  Sorghum almum 6952
  Sorghum bicolor 3779, 6952
  Sorghum halepense 6952
  Zea mays 4854, 6910-6911, 11510
    germplasm releases 11513
Spodoptera littoralis
  Lycopersicon esculentum, gene expression 9549
  Nicotiana tabacum, genetic transformation 5482
Spodoptera litura*, *Arachis hypogaea 3251
Spondylocladium (*see also Helminthosporium)*
Spongospora subterranea
  Nasturtium officinale 5167
  Solanum tuberosum 8275
Spores
  Anemia phyllitidis, gene expression 6596
  Pleurotus pulmonarius, artificial selection 4490
  Volvariella volvacea 5682
Sporisorium reilianum*, *Zea mays 11502
***Sporobolus blakei*,** taxonomy 9275
***Sporobolus disjunctus*,** taxonomy 9275
***Sporobolus metallicolus*,** taxonomy 4938
***Sporobolus multiramosus*,** taxonomy 4938
***Sporobolus pamelae*,** taxonomy 9275
***Sporobolus partimpatens*,** taxonomy 9275
Spring and winter habit
  Aegilops × *Triticum*
    genetics 10097
    nucleocytoplasmic interaction 10097
  Brassica napus, rape 3201
  Glycine max 11725
  Hordeum vulgare 11386
    genetics 3679, 6831
  Lupinus albus 8119
  Triticum aestivum
    genetics 2491, 10097
    nucleocytoplasmic interaction 10097
Sprouting
  Allium ascalonicum 7193
  Allium cepa 7193, 9508-9509
  Oryza sativa 9219
  Secale 296
  Secale cereale 12646
  Solanum tuberosum 10573
  triticale 3702, 4798, 4800, 12650
  Triticum aestivum 2495, 6751, 8902, 10089, 11318, 11321, 11341, 12512-12515, 12525, 12528
    artificial selection 12516-12518
    combining ability 12516
    gene dosage 12509
    gene expression 12523
    genetics 12508
    heritability 7762
    linkage 12509
    mathematics 12511
    mutations 12523
    restriction fragment length polymorphism 7762, 12519
Spur types
  Malus pumila
    genetics 10714
    multivariate analysis 7253
Squash leaf curl bigeminivirus, *Nicotiana benthamiana*, genetic transformation 3312
Squash mosaic comovirus
  Cucumis sativus 5205
  Cucurbita 5205
Stability
  Abelmoschus esculentus 13043
  Avena sativa 6864
    statistics 7584
    yield components 8975-8976
  Beta vulgaris, sugarbeet 6461
  Brassica campestris, toria, yield components 10845
  Carthamus tinctorius 12065
  Cicer arietinum, yield components 6205
  Cocos nucifera, yields 1977, 6397
Stability *cont.*
  Corchorus olitorius, yield components 12169
  Cyamopsis tetragonoloba, yields 1773
  Elaeis guineensis 12068
  Festuca arundinacea 11643
  Festuca pratensis 11643
  Festuca rubra 11643
  Glycine max 7091
    yields 9349
  Gossypium arboreum, yield components 3325
  Gossypium hirsutum 13243
  Hibiscus cannabinus
    colour 4343
    leaves 4343
  Hibiscus radiatus
    colour 4343
    leaves 4343
  Hordeum vulgare 1368, 5848
    artificial selection 4657
    lodging 6830
  Ipomoea batatas, statistics 9489
  Lolium perenne 9253
  Lupinus albus 4957
  mathematics 3471
  Musa 5310
  Oryza sativa 439, 1588
    yield components 8034, 11603
    yields 11603
  Papaver somniferum, yield components 1051
  Paspalum scrobiculatum 7046
  Pennisetum glaucum
    forage 7987
    Puccinia substriata 7987
    quality 7987
  Phaseolus vulgaris 12881
  Pisum sativum
    yield components 7114, 10524, 12891
    yields 11762
  population genetics 2363
  Pyrus communis 5238
  Saccharum officinarum 5409
  Salix, development 5551
  selection 2363
  Solanum tuberosum 1794, 5106
    yields 9471
  Sorghum bicolor 5995
  statistics 6645, 7584
  triticale 1252
  Triticum aestivum 1252, 3639, 5848
    proteins 4719
    salinity 7788
    shade 7787
    soil pH 7788
    statistics 4546
    yield components 4719
    yields 4717, 10071
  Triticum durum 2511, 3640
    artificial selection 4657
    quality 1311, 12543
    yield components 6766
  Triticum turgidum, yield components 6761
  Vicia faba, yield components 10497, 10499
  Vigna radiata
    nitrogen 591
    yields 591
  Vigna unguiculata 5070
    yield components 583
  Vitis vinifera, fruits 776
  yields, mathematics 1109
  Zea mays
    Setosphaeria turcica 6904
    statistics 4546
  Zizania aquatica 3868
  Zizania palustris 3868
Stachylidium (*see also Verticillium)*
***Stanhopea* × *Coryanthes*,** intergeneric hybridization 9891
***Stanmarkia*,** taxonomy 7462
***Stanmarkia spectabilis*,** taxonomy 7462
***Staphylea campanulata*,** taxonomy 7466
Starch
  genetic engineering 12396
  genetic transformation 11190, 12396
  Hordeum vulgare 10180
    genetic engineering 12396
    genetic transformation 12396

- **Starch** *cont.*
  - *Ipomoea batatas* 8291, 9485, 12957
  - molecular genetics 11190
  - *Nicotiana tabacum,* gene expression, genetic transformation 10566
  - *Oryza sativa* 1586-1587, 9226, 11597
    - induced mutations 6989
  - *Pachyrhizus erosus,* induced mutations 1814
  - *Pisum sativum* 11757
    - genetics 5052
    - induced mutations 7109
    - molecular genetics, reviews 6180
  - *Pyrus communis* 10737
  - *Setaria italica,* genetics 7982
  - *Solanum,* tuberous species 8265
  - *Solanum tuberosum* 8265, 12938
    - gene expression 10575, 10585, 11821
      - genetic transformation 10566
    - genetic transformation 10585, 11821
    - induced mutations 2969
    - molecular genetics 2969
  - *Zea mays* 1453
    - gene mapping 7942
    - genetics 1454, 9138, 11463
    - molecular genetics 307
    - mutations 1454, 11463
    - restriction fragment length polymorphism 7942
- **Starch phosphorylase**
  - *Solanum tuberosum*
    - gene expression 608
    - molecular genetics 608
- **Starch synthase**
  - *Hordeum vulgare,* mutations 8954
  - *Manihot esculenta*
    - gene expression 4017, 11848
    - nucleotide sequences 4017
  - *Oryza sativa*
    - gene expression 1528
    - molecular genetics 1528
  - *Solanum tuberosum*
    - gene expression 4017, 6233, 11804
    - genetic transformation 4017, 6233, 11804
- **Statistics** 11156
  - artificial selection 11143
  - *Avena sativa,* stability 7584
  - backcrossing 12
  - *Beta vulgaris,* sugarbeet, artificial selection 7579
  - books 5707-5708
  - breeding 1176, 3470, 8776
  - *Chamaelirium luteum,* paternal effects 9870
  - *Cocos nucifera,* reviews 6374
  - combining ability 8776
  - crops 6767
  - cytoplasmic male sterility 1194
  - evolution 12459
  - forest trees, artificial selection 8583
  - gene flow 8846
  - genetic transformation 11195
  - genetic variance 7668, 12433
    - quantitative traits 2370-2371
  - genetics 12430-12431
  - genotype environment interaction 2302-2303, 3473, 12551
  - *Glycine max*
    - heritability 11700
    - yield correlations 11700
  - heritability, quantitative traits 2371
  - heterozygosity 1181
  - *Hordeum vulgare,* breeding 7832
  - *in vitro* culture 12453
  - inbreeding 7667
  - inbreeding depression 12434
  - *Ipomoea batatas,* stability 9489
  - linkage 4598, 8841, 12433-12434
  - *Malus pumila,* rootstocks 11945
  - molecular genetics, evolution 3340
  - mutations 4624
  - *Olea europaea*
    - flowers 5396
    - fruits 5396
  - *Oryza sativa* 11545
  - *Picea glauca,* outcrossing 13311
  - *Pinus sylvestris,* artificial selection 5579
  - *Pinus taeda*
    - genetic variance 9807
    - outcrossing 9807
- **Statistics** *cont.*
  - *Pinus taeda cont.*
    - population genetics 9807
  - polyploidy 2379
  - population genetics 90, 2379, 7669, 8846, 9217, 9812
  - *Populus,* cytoplasmic male sterility 1194
  - quantitative genetics 90
  - recombination 4598
  - restriction fragment length polymorphism 7668
    - quantitative traits 2370
  - selection 7664
    - linkage 2369
  - *Solanum tuberosum*
    - genotype environment interaction 5103
    - variety trials 5103
  - stability 6645, 7584
  - *Thuja plicata*
    - genetic variance 9807
    - outcrossing 9807
    - population genetics 9807
  - *Triticum aestivum* 6767
    - genotype environment interaction 8914, 12551, 12553
    - stability 4546
    - variety trials 2444, 5854
  - variety trials 3473, 5725, 7583
  - *Zea mays*
    - artificial selection 9005
    - breeding 9000
    - genotype environment interaction 3758, 9005
    - population genetics 12666
    - stability 4546
    - yields 5948
- **Stearic acid**
  - *Arabidopsis thaliana,* mutations 12417
  - *Glycine max* 7089
- **Stearoyl-CoA desaturase,** *Ricinus communis,* nucleotide sequences 12093
- ***Stemonoporus oblongifolius,*** genetic variation, isoenzymes 8614
- ***Stemphylium*** *(see also Alternaria)*
- ***Stemphylium vesicarium,*** *Allium sativum* 8302
- **Stems** (*see also* Internodes)
  - *Acacia nilotica* 9794
  - *Brassica napus,* rape 5364, 6346
  - *Clarkia amoena*
    - artificial selection 12243
    - heritability 12243
    - inbreeding depression 12243
  - *Cucumis sativus,* mutations 11935
  - *Elymus trachycaulus,* genetics 10406
  - *Eustoma grandiflorum,* heterosis 11065
  - gene expression 10041-10042
  - *Gerbera jamesonii* 13362
  - *Glycine max* 1700
    - heterosis 1702
  - *Ipomoea batatas,* induced mutations 9486
  - *Larix occidentalis* 8649
  - *Lycopersicon esculentum,* mutations 6267
  - *Oryza sativa* 1591
    - genetic variance 10370
    - genetics 6978
    - heritability 10370
    - induced mutations 6978
  - *Paullinia cupana* 13111
  - *Pisum sativum* 550
  - *Secale cereale* 11411
  - triticale, heritability 4799
  - *Zea mays* 6909, 12677
    - gene location 9086
    - genetics 9086
    - mutations 9086
    - sweetcorn 12677
- ***Stenocarpella maydis***
  - *Zea mays* 2694, 10298-10299
    - artificial selection 4843
- ***Stenotaphrum secundatum***
  - *Belonolaimus longicaudatus* 3907
  - cold resistance 10416-10417
  - embryo culture 6073
  - polyploidy 3907
  - salinity 10415
  - tissue culture 6073
- ***Stephanitis pyrioides,*** *Rhododendron* 5623
- **Sterility**
  - *Bromus inermis* 466
- **Sterility** *cont.*
  - *Capsicum annuum,* induced mutations 11899
  - *Glycine* 509
  - *Hordeum vulgare,* genetics 1354
  - *Lens culinaris* 3971
    - genetics 7123
  - *Lens ervoides* 3971
    - genetics 7123
  - *Lens orientalis* 3971
    - genetics 7123
  - *Nicotiana tabacum*
    - gene expression 12141
    - genetics 12141
  - *Oenothera erythrosepala,* mutations 12255
  - *Oenothera hookeri,* mutations 12255
  - *Oryza sativa*
    - genetics 1551, 2743
    - induced mutations 1551
    - linkage 1551
    - multiple alleles 12733
    - natural selection 1598
  - *Solanum demissum* 2965
  - *Solanum stoloniferum* 2965
  - *Triticum aestivum* 202
  - *Zea mays* 2678
- **Steroid saponins,** *Dioscorea deltoidea* 5668
- **Steroids**
  - *Quercus agrifolia* 2115
  - *Quercus wislizenii* 2115
- **Sterols**
  - *Lens culinaris* 12907
  - *Nicotiana tabacum*
    - cytology 13223
    - mutations 13223
- ***Stetsonia***
  - seeds 8729
  - taxonomy 8729
- ***Stevia rebaudiana***
  - cell culture 5437
  - heritability
    - stevioside 900
    - yield components 900
  - polyploidy 5437
  - tissue culture 13193
- **Stevioside,** *Stevia rebaudiana,* heritability 900
- ***Stictophyllorchis pygmaea***
  - nomenclature 1029
  - taxonomy 1029
- ***Stictophyllum***
  - nomenclature 1029
  - taxonomy 1029
- ***Stigmina carpophila,*** *Prunus avium* 10751
- **Stilbenes**
  - *Vitis vinifera*
    - gene expression 8429
    - nucleotide sequences 8429
- **Stomata**
  - *Allium cepa* 5146
  - *Allium nutans* 5146
  - *Arachis hypogaea* 4253
  - *Glycine max* 7083
  - *Helianthus annuus,* heterosis 6363
  - *Musa* 9615
  - *Nicotiana tabacum,* gene expression, genetic transformation 10566
  - *Solanum tuberosum,* gene expression, genetic transformation 10566
  - *Triticum aestivum* 211, 2486, 2499
  - *Triticum dicoccum* 211
  - *Triticum durum* 211, 2486, 2499
- **Storage**
  - *Abelmoschus esculentus,* seeds 1883
  - *Abies pinsapo,* pollen 13318
  - *Acacia auriculiformis,* pollen 11002
  - *Acacia iteaphylla,* pollen 11002
  - *Acacia karroo,* pollen 11002
  - *Acacia mangium,* pollen 11002
  - *Allium,* pollen 633
  - *Allium victorialis,* pollen 10635
  - *Anigozanthos manglesii,* pollen 9861
  - *Arachis hypogaea,* seeds 4256
  - *Astronium urundeuva,* seeds 12285
  - *Brassica napus,* rape, seeds 12042
  - *Camellia sinensis,* pollen 3274
  - *Carica papaya,* pollen 4169
  - *Carya illinoinensis,* pollen 137
  - cereals, seeds 4539
  - *Citrus,* pollen 4169

Storage *cont.*
- *Citrus limon,* pollen 800
- *Cocos nucifera,* pollen 1974
- *Corylus avellana,* pollen 137
- crops, seeds 4539
- Cruciferae, seeds 1819
- *Glycine max,* seeds 9341, 11711, 12846
- *Gossypium hirsutum,* seeds 4322
- grasses, seeds 4911
- *Lens culinaris,* seeds 2919
- *Lilium,* pollen 11084
- *Mangifera indica,* pollen 4169
- medicinal plants, seeds 1039
- *Momordica charantia,* pollen 11940
- *Momordica dioica,* pollen 11940
- *Oryza sativa,* seeds 384
- *Panax pseudoginseng,* pollen 5667
- *Panax quinquefolius,* pollen 5667
- *Phaseolus vulgaris,* seeds 536
- *Phoenix dactylifera,* pollen 137, 10817
- *Picea abies,* pollen 2129
- *Picea pungens,* pollen 137
- *Pilocarpus microphyllus,* seeds 12284
- *Pinus nigra,* pollen 2129
- *Pinus pinea,* pollen 2129
- *Pinus ponderosa*
  - pollen 137
  - seeds 13296
- *Pinus strobus,* pollen 2129
- *Pinus sylvestris,* pollen 2129
- *Pinus uncinata,* pollen 2129
- *Poa pratensis,* seeds 6064
- *Prunus dulcis,* tissue culture 10759
- *Prunus persica,* tissue culture 10759
- *Prunus salicina,* pollen 8400
- *Rubus,* blackberries, seeds 8417
- *Rubus idaeus,* seeds 8417
- *Rubus occidentalis,* seeds 8417
- *Saccharum officinarum,* pollen 877
- *Saccharum spontaneum,* pollen 877
- seeds 15, 8772
- *Sesbania sesban,* pollen 3932
- *Solanum melongena,* seeds 10688
- *Solanum tuberosum* 12927
- *Sorghum bicolor,* pollen 12691
- *Tripsacum dactyloides,* pollen 1471
- *Tripsacum lanceolatum,* pollen 1471
- *Triticum aestivum,* seeds 11314
- *Typha latifolia,* pollen 137
- *Ulmus,* tissue culture 5552
- *Ulmus minor,* tissue culture 5552
- *Verticordia,* pollen 9837
- *Vicia faba,* seeds 11266
- *Vitis vinifera,* pollen 4169
- woody plants
  - pollen 8765
  - seeds 8765
- *Zea mays,* pollen 137, 7914, 9007, 10219

Streptomyces aureofaciens, *Solanum tuberosum* 8270

Streptomyces scabies, *Solanum tuberosum* 2982

Streptomycin
- *Lycopersicon esculentum*
  - genetic markers 11880
  - genetic transformation 11880
  - transposable elements 11880
- *Nicotiana plumbaginifolia*
  - chloroplast genetics 920, 12122
  - mutations 12122
- *Nicotiana tabacum*
  - genetic markers 11880
  - genetic transformation 11880
  - transposable elements 11880
- *Solanum melongena*
  - cytoplasmic inheritance 5193
  - induced mutations 5193
- *Vigna unguiculata* 7141

Streptostachys rigidifolia, taxonomy 4936

Stress 2378, 4547, 11166
- *Abelmoschus* 1888
- *Abelmoschus esculentus* 1888
- *Acer saccharum,* heterozygosity 2043
- *Agrostis capillaris* 7019
- *Allium fistulosum* 2378
- *Anthoxanthum odoratum* 7019
- *Arabidopsis thaliana*
  - gene expression 3509, 3512, 6680, 8821
  - molecular genetics 3512
  - nucleotide sequences 6680

Stress *cont.*
- artificial selection, reviews 32, 2387
- *Avena sativa,* reviews 4793
- *Bromus hordeaceus* 7019
- cereals, *in vitro* selection 1248
- *Cicer arietinum* 6113, 6207, 9320
- crops 6767, 9320, 12371
- *Cynosurus cristatus* 7019
- *Dactylis glomerata* 7019
- *Elaeis guineensis* 853
- *Eleusine coracana* 6962
- *Elymus elongatus,* nucleotide sequences 9258
- evolution 30
- *Festuca rubra* 7019
- fodder legumes 6113, 7073-7075
- forest trees 5519
- gene expression 1123, 11187
  - books 2266
  - reviews 8780-8782
- gene mapping, reviews 2305
- genetic transformation 11187
- genomes 7588
- *Glycine max* 11277
  - *in vitro* selection 11276
- *Gossypium* 5509, 6521
- grain legumes
  - artificial selection 8135
  - heritability 8135
- *Grevillea banksii* 2168
- *Grevillea bipinnatifida* 2168
- *Helianthus annuus,* gene expression 4237
- *Holcus lanatus* 7019
- *Hordeum vulgare* 4771
- *in vitro* selection, reviews 2387
- Leguminosae, molecular genetics 6112
- *Lens culinaris* 6199
- *Lolium perenne* 7019
- *Lupinus albus,* artificial selection 7072
- *Lycopersicon chilense,* nucleotide sequences 6262
- *Lycopersicon esculentum* 1839
- *Medicago sativa,* artificial selection 6057
- *Miscanthus* 9278
- molecular genetics 11167
  - reviews 8783
- *Nicotiana plumbaginifolia*
  - gene expression 12152
  - nucleotide sequences 12152
- *Nicotiana tabacum*
  - gene expression 6192, 6680, 12152
  - genetic transformation 6192, 6680, 12152
  - *in vitro* selection 11276
- *Oryza sativa* 10336, 10383-10384
  - gene expression 6970, 11604
  - genetic transformation 4899
  - nucleotide sequences 6970, 11604
- *Phaseolus vulgaris,* gene expression 5986
- *Pinus edulis* 11025
- *Pinus nigra* 6548
- *Pinus sylvestris* 6548
  - gene expression 6553
- *Pisum sativum* 9320
  - molecular genetics 11751
- pollen 1216
- *Pyrus communis* 5238
- restriction fragment length polymorphism, reviews 2305
- *Solanum,* tuberous species 1785
- *Solanum tuberosum* 2975, 2977, 9473-9475
- Triticeae 12558
- *Triticum aestivum* 12558
  - chromosome substitution 3643
  - genetic engineering 7792
  - genetic variance 7792
  - molecular genetics 7792
- *Vicia faba* 5798, 6152
  - artificial selection 7072
- *Vigna radiata, in vitro* selection 592
- *Zea mays* 5983, 7950, 9144, 11277
  - gene expression 3743, 5986

Strictosidine synthase
- *Nicotiana plumbaginifolia*
  - gene expression 12286
  - genetic transformation 12286
- *Rauvolfia mannii*
  - molecular genetics 12286
  - nucleotide sequences 12286

Strictosidine synthase *cont.*
- *Rauvolfia serpentina*
  - molecular genetics 12286
  - nucleotide sequences 12286

Striga
- genetics 12374
- *Sorghum bicolor* 6955
- *Zea mays* 6902

Striga gesnerioides, *Vigna unguiculata* 8222

Striga hermonthica
- *Sorghum bicolor* 9182
- *Zea mays*
  - combining ability 11515
  - genetics 11515

Styloceras, taxonomy 4359

Styloceras penninervium, taxonomy 4359

Stylosanthes
- genetic variation, isoenzymes 487
- genotype mixtures 10443
- geography 11689
- *Glomerella cingulata* 10443
- taxonomy 11689
- variety classification 487

Stylosanthes guianensis, genetic transformation 8123

Stylosanthes viscosa, genetic resources 3931

Substitution lines
- *Triticum aestivum* 12491
- *Triticum durum*
  - quality 12547
  - yield components 12547

Subtropical fruits
- genetic resources 4168
- pollination 4170
- self incompatibility 4170

Sucrose
- *Beta vulgaris,* sugarbeet 10912
- *Elaeis guineensis* 853
- *Glycine max,* gene expression 8153, 10465
- *Lycopersicon chmielewskii*
  - gene mapping 677
  - linkage 677
- *Lycopersicon hirsutum* 13012
  - gene mapping 677
  - linkage 677
- *Nicotiana tabacum*
  - gene expression 10465, 10932
  - genetic engineering 10465
  - genetic transformation 10932
- *Solanum tuberosum,* gene expression 3999

Sucrose phosphate synthase
- *Spinacia oleracea*
  - gene expression 3050, 6256
  - molecular genetics 3050
  - nucleotide sequences 6256

Sucrose synthase
- *Hordeum vulgare*
  - gene expression 274
  - nucleotide sequences 274
- *Lycopersicon esculentum*
  - gene expression 8332
  - nucleotide sequences 8324
- *Solanum tuberosum,* genetic transformation 11192
- *Sorghum bicolor,* gene expression 9174
- *Vicia faba*
  - gene expression 2879, 4998
  - nucleotide sequences 4998
- *Zea mays*
  - gene expression 10291
  - nucleotide sequences 7885

Sucrose transporter
- *Arabidopsis thaliana*
  - gene expression 10004
  - genetic engineering 10004
  - nucleotide sequences 10004
- *Solanum tuberosum*
  - gene expression 8246
  - genetic transformation 8246

Sugarcane Fiji disease fijivirus, *Saccharum officinarum,* genetic variance 6453

Sugarcane mosaic potyvirus
- *Pennisetum glaucum* 2722
- *Saccharum* 12101
- *Saccharum officinarum* 8523
  - genetic transformation 6455
- *Zea mays* 4850, 11497

Sugars
- *Actinidia arguta* 7297

Sugars *cont.*
  Actinidia kolomikta 7297
  Allium cepa 7197
  Beta vulgaris
    sugarbeet 10910-10911
      combining ability 3271
      heterosis 3271
  Brassica napus, swedes 3017
  Citrus 13101
  Colocasia esculenta 7183
  Ipomoea batatas 12957
  Lycopersicon chmielewskii, gene expression 4069
  Lycopersicon esculentum
    gene expression 4069
    genetic variance 13012
    genetics 13012
  Pennisetum purpureum 9191
  Petunia hybrida 5649
  Phleum pratense 12804
  Prunus domestica 11962
  Prunus persica, heritability 4143
  Pseudotsuga menziesii 987
  Saccharum officinarum 4275
  Solanum tuberosum 6238
    gene expression 10575
  Sorghum bicolor 4871, 6955
  Triticum aestivum 12556
  Vitis rotundifolia 6311
  Vitis vinifera 6311
  Zea mays 11472
Sulfate adenylyltransferase
  Arabidopsis thaliana
    gene expression 12411
    nucleotide sequences 12411
  Solanum tuberosum
    genetic transformation 10568
    molecular genetics 10568
    nucleotide sequences 10568
Sulfonylureas, *Kochia scoparia* 2784
Sulfur
  Allium cepa 9513
  Brassica napus, rape 6350, 8479
  Gossypium hirsutum 2096
Sulfur dioxide
  Triticum aestivum 10124
  Triticum durum 10124
Superoxide dismutase
  Coffea 10923
  gene expression 11187
    reviews 8780, 8782
  genetic transformation 11187
  Glycine max 12860
    genetics 3946
  Glycine soja, genetics 3946
  Hevea brasiliensis
    gene expression 965
    molecular genetics 965
  Ipomoea batatas, nucleotide sequences 4018
  Lycopersicon esculentum, mutations 9545
  Medicago sativa, genetic transformation 6084
  Nicotiana plumbaginifolia
    gene expression 6084, 12152
    genetic engineering 6084
    genetic transformation 6495, 8541
    nucleotide sequences 12152
  Nicotiana tabacum
    gene expression 6192, 12152
    genetic transformation 6192, 8785, 12152
  Oryza 6991
  Oryza sativa 9220
    nucleotide sequences 8000
  Pinus sylvestris, gene expression 6553
  Pisum sativum
    gene expression 6192, 12899
    genetic engineering 6192
  Spinacia oleracea
    gene expression 9522
    nucleotide sequences 9522
  Triticum aestivum 6774
    genetic variance 4701
  Zea mays
    gene expression 3764, 4831, 10237
    nucleotide sequences 10237
Swartzia gracilis, taxonomy 11011
Swartzia oscarpintoana, taxonomy 11011
Swertia chirata, tissue culture 9918
Symbiosis
  evolution 4640
  fodder legumes
    gene expression 7071
    genetics 7071
  grain legumes
    gene expression 7071
    genetics 7071
  Medicago sativa
    gene expression 7071
    genetics 7071
Synanthedon exitiosa, *Prunus persica* 758
Synapsis (*see* Chromosome pairing)
Synaptonemal complex 4629
  Arabidopsis thaliana 11213
  Festuca arundinacea 459
  Festuca gigantea 459
  Festuca × *Lolium* 459
  Lolium multiflorum 8068
  Lycopersicon esculentum 3541, 4060, 7218
  Lycopersicon peruvianum 7218
  Lycopersicon (×) *Solanum* 7217
  Secale cereale 10208
    mutations 12645
  Zea mays 2679
    mutations 3733
Synchytrium decipiens, *Amphicarpaea bracteata,* gene flow 597
Synchytrium endobioticum
  Solanum tuberosum 2988
    genetics 2978
Syndesis (*see* Chromosome pairing)
Synthetic varieties
  Dactylis glomerata 2790
  Trifolium pratense 2838
  Vicia faba 136, 10495
  Zea mays 5945
Syringa
  interspecific hybridization 3372
  random amplified polymorphic DNA 3372
Systemin, *Lycopersicon esculentum,* gene expression 6268
Syzygium (*see also Eugenia*)
  taxonomy 7470
Syzygium aromaticum
  buds 6608
  flowering 6608
Syzygium cumini
  breeding 4192
  sexual reproduction 4192
Taeniatherum* × *Triticum
  chromosome pairing 7745
  intergeneric hybridization 7745
Taeniorhachis, taxonomy 7042
Tagetes erecta
  interspecific hybridization 12246
  variety trials 12246
Tagetes laxa
  chemotaxonomy 5642
  flavonoids 5642
Tagetes mendocina, tissue culture 6603
Tagetes minuta, chemotaxonomy 5641
Tagetes multiflora
  chemotaxonomy 5642
  flavonoids 5642
Tagetes patula
  interspecific hybridization 12246
  variety trials 12246
Tagetes riojana, chemotaxonomy 5641
Taiwan, Taiwan Agricultural Research Institute, reports 3441
Taiwania cryptomerioides
  genetic distance, isoenzymes 4383
  genetic variation, isoenzymes 4383
Tamarix gallica, tissue culture 4356
Tanacetum cinerariifolium
  variety trials 1053
  yield correlations 1054
Tanacetum vulgare, triterpenoids 8739
Tannins
  angiosperms 7684
  Fagopyrum esculentum 1621
  Fagopyrum tataricum 1621
  Gossypium 5506
  grain legumes 4976
  Hordeum vulgare 2619
  Lathyrus sativus 493
  Lens culinaris 4978
  Leucaena diversifolia 12203
Tannins *cont.*
  Leucaena leucocephala 12203
  Leucaena pallida 12203
  Lotus 1674
  Lotus corniculatus
    gene expression 8121
    genetic transformation 1675, 8121
  Phaseolus vulgaris 4978
  Pisum sativum 4978, 5050-5051, 5053
  Rosa 5309
  Sorghum bicolor 357
  Vicia faba 4978, 5007-5013, 8168
Taphrina deformans, *Prunus persica* 757, 8415
Taxol, *Taxus* 4386
Taxonomy 131, 2409, 3563, 6720, 7683, 10051, 11265
  Abelmoschus 1886-1887
  Acacia 5556, 8613, 11003-11006
  Acacia cedilloi 8613
  Acacia masliniana 5557
  Acacia pedleyi 4355
  Acacia sulcata 5556
  Acacia tolmerensis 11003
  Acer 9800
    books 7575
  Achillea millefolium 11072
  Aconitum delphinifolium 5645
  Aconitum krasnoboroffii 13389
  Adiantum capillus-veneris, molecular genetics 8726
  Adiantum diaphanum 4465
  Aegilops 7039, 7712, 7781, 7827
  Affonsea gereauana 11012
  Agnesia lancifolia 5679
  Agrostis stolonifera
    chloroplast genetics 8062
    restriction fragment length polymorphism 8062
  Aiouea grandifolia 8627
  Aiouea longipetiolata 8627
  Alexfloydia repens 2816
  Allium, books 13415
  Allium cepa 9514
  Allium fistulosum 9514
  Alocasia simonsiana 9496
  Aloe brachystachys 9906
  Aloe schliebenii 9906
  Anemone, molecular genetics 13364
  Angelica longeradiata 12302
  angiosperms, chloroplast genetics 2398-2400
  Angolluma semitubiflora 9907
  Aniba heterotepala 8627
  Aniba pilosa 8627
  Aniba vulcanicola 8627
  Anodendron paniculatum 6527
  Anthaenantiopsis fiebrigii 470
  Anthaenantiopsis perforata 470
  Anthaenantiopsis rojasiana 470
  Anthaenantiopsis trachystachya 470
  Anthoxanthum 8095
  Apostasia 9899
  Arabis pumila 1009
  Arabis stellulata 1009
  Arachis 13162
  Ardisia 2127
  Ardisia cardenasii 8626
  Ardisia mcphersonii 8626
  Areca tunku 5341
  Argyrolobium 8130
  Argyrolobium campicola 1685
  Argyrolobium longifolium 8130
  Argyrolobium parviflorum 1685
  Argyrolobium pseudotuberosum 8130
  Aria 8628
  Arthragrostis clarksoniana 2814
  Arum, books 5701
  Arundina graminifolia 9896
  Arytera 8623
  Asplenium 6599
  Asteridae, chloroplast genetics 2402
  Astragalus 1687
    chloroplast genetics 495
  Astragalus brevipilus 1683
  Astragalus dianat-nejadii 1684
  Astragalus tortipes 12825
  Athenaea 1853
  Australopyrum calcis 3905
  Australopyrum pectinatum 3905
  Australopyrum refractum 3905

Taxonomy *cont.*
Avena 4791
Aveneae 2810
Avenula 8093, 9274
Avenula marginata 10203
Bambusa 7558
Bassovia 1853
Bauhinia 9761-9762
Bauhinia cercidifolia 9761
Bauhinia ornata 1682
Beta 2037, 2039, 9709
Beta vulgaris 2037
books 4521
Botrypus strictus, molecular genetics 8726
Brachiaria 1646
Brachiaria atrisola 2814
Brachiaria holosericea 2814
Brachypodium, restriction fragment length polymorphism 9277
Brachystelma christianeae 11097
Brachystelma lutea 11099
Brassica oleracea
  cabbages, multivariate analysis 3044
  kale, multivariate analysis 3044
Bulbophyllum 4458, 9901
Bulbophyllum drepanosepalum 4459
Bulbophyllum entomonopsis 4459
Bursera 7465
Bursera inversa 7465
Calanthe keshabii 11091
Calliandra 2167
Calyptranthes bracteata 13288
Camellia 2166, 4400, 11047
Camellia nitidissima 3377
Camellia petelotii 3377
Capsicum 1853
Caralluma 9907
Carthamus 851
Catabrosa aquatica
  chloroplast genetics 10411
  restriction fragment length polymorphism 10411
catalogues 2408
Catostemma durifolius 8625
Celmearia ruawahia 4404
Celmisia × *Olearia* 4404
Centrosema 4968
Centrosema teresae 11692
Cephalanthera 1027
Cereus 8729
Chamaecrista aldabrensis 7068
Chamaedorea 5568
Cheilosa montana 8624
Chionanthus 11018
Chusquea 7557
Cicer 9418
Cichorium
  mitochondrial genetics 9532
  restriction fragment length polymorphism 9532
Cinnamomum kruseanum 4481
Citrus 9625, 9627-9628
Citrus reticulata 7306
Cleisostoma sikkimense 9897
Cleistocalyx 7470
Cliffordiochloa parvispicula 2816
Clitoria 4968
Clitoria hanceana 4969
Clitoria macrophylla 4969
Clusia alata, random amplified polymorphic DNA 3351
Clusia minor, random amplified polymorphic DNA 3351
Clusia multiflora, random amplified polymorphic DNA 3351
Coffea 10921
  random amplified polymorphic DNA 904
Colchicum feinbruniae 2205
Columnea 13344
  chloroplast genetics 13345
  restriction fragment length polymorphism 13345
Compositae, chloroplast genetics 2404
computer programming 132, 2407, 7682
Cornus 982
  chloroplast genetics 3350
Cotoneaster 12239
Cotoneaster hylmoei 11046
Crithopsis 7039

Taxonomy *cont.*
crops 6724
  bibliographies 7676
  nucleotide sequences 11489
  restriction fragment length polymorphism 11489
Crotalaria venusta 7430
Cruciferae, chloroplast genetics 9670
Cryptarrhena 8719
Cucumis 2270
Cycas taitungensis 11035
Cycas taiwaniana 11035
Cyclobalanopsis bapouensis 981
Cyclobalanopsis dulongensis 981
Cyclobalanopsis nengpulaensis 981
Cyclopogon dressleri 11093
Cymbidium kinabaluense 2212
Cyphomandra, chloroplast genetics 3568
Cypripedium 9890
Cyrtococcum capitis-york 2814
Cyrtopodium longibulbosum 8716
Dactylorhiza fuchsii 1027
Dactylorhiza majalis 1027
Dallwatsonia felliana 2816
Danthonia 7040
Danthonia annableae 9273
databases 2408, 7680, 12343
Datura 11104
Delphinium 9878
Dendrobium 6595
  chloroplast genetics 13379
Dendrobium brevicaudum 12278
Dendrobium funiushanense 6592
Dendrobium tobaense 8717
Dendrocalamus somdevai 5678
Desmanthus 3938
Dimocarpus longan 13110
Dioscorea 4021, 8293
  books 12315
  chloroplast genetics 626
  restriction fragment length polymorphism 626
Dioscorea cayenensis
  chloroplast genetics 626
  restriction fragment length polymorphism 626
Dioscorea mesoamerica 4021
Dioscorea rotundata
  chloroplast genetics 626
  restriction fragment length polymorphism 626
Diospyros 9631
Diospyros ghatensis 8451
Diospyros pyrrhocarpoides 8451
Disa, chloroplast genetics 8724
Disporum sessile 6590
Disporum uniflorum 6590
Dodecatheon pulchellum 11071
Dupoa 9246
Dysoxylum 11015
Ekmanochloa 6616
Elaeocarpus 11017
Eltroplectris rossii 8716
Elymus 4927, 8080, 10404
Elymus cacuminus 8079
Elymus caucasicus 4927
Elymus novae-angliae 10406
Elymus parviglumis 4927
Elymus retroflexus 8079
Elymus semicostatus 8080
Elymus spicatus 8079
Elymus trachycaulus 10406
Empetraceae, chloroplast genetics 2403
Epacridaceae, chloroplast genetics 2403
Epilobium, molecular genetics 13363
Epimedium latisepalum 6573
Epimedium ogisui 6573
Epipactis 13380
Ericaceae, chloroplast genetics 2403
Erythrina 9852, 12201
Erythrodes amazonica 1029
Erythrodes steyermarkii 1029
Erythroxylum plowmanianum 5570
Eucalyptus 2113, 10994
  chloroplast genetics 972
Eucalyptus botryoides 2112
Eucalyptus camaldulensis 5531
Eucalyptus saligna 2112
Eucalyptus serraensis 8591
Eucalyptus tereticornis 5531
Eucalyptus verrucosa 8591

Taxonomy *cont.*
Eucalyptus victoriana 8591
Eugenia gongylocarpa 13288
Euphorbia 2152, 11036
fatty oil plants, chloroplast genetics 3188
Festuca 7029-7030, 10402
Festuca hyperborea 10402
Festuca ovina 2800
Festuca paradoxa 3882
Festuca rivas-martinezii 12794
Festuca rubra 2800
Festuca subverticillata 3882
fodder plants 4909
forest trees, conferences 8756
Fortunella 9627-9628
Fritillaria cirrhosa 9887
Froesia diffusa 13289
Funkiella 8722
Galanthus koenenianus 6589
Ganoderma 4509
Garcinia dhanikhariensis 9636
Geissanthus 7459
genetic resources 128
Gentiana chazaroi 8689
Geraniaceae, chloroplast genetics 3368
Gerritea 3904
Gerritea pseudopetiolata 3904
Ginkgo biloba, molecular genetics 8629
Glycine 8159
Glycine pindanica 8159
Gossypium 10978
Gossypium arboreum 5508
Gossypium hirsutum 4338
Gossypium lanceolatum 4338
grasses 1624
  chloroplast genetics 8062, 11623
  restriction fragment length polymorphism 8062, 11623
Grevillea 9850
  books 2263
Griselinia 7472
Guarea michel-moddei 7464
Gymnocalycium 8729
Gynerium sagittatum 10410
Habenaria 6594
Habenaria phantasma 6593
Habenaria praetermissa 6593
Haemanthus pauculifolius 2206
Haploclathra cordata 7461
Harrisia 8729
Haworthia tenuifolia 1024
Hebe 11045
Helictotrichon 9274
Heliohebe 11045
Hemerocallis hongdoensis 11083
Henrardia 7039
Heteranthelium 7039
Heterospathe parviflora 5574
Hexalectris spicata 8718
Hibiscus cannabinus 2104
history 7681, 12460
Holttumochloa 7558
Hordeum 7712, 10181
  gene location 7036
  random amplified polymorphic DNA 6838
  restriction fragment length polymorphism 12619
Hordeum vulgare 285
Hordeum × *Leymus,* gene location 7036
Hornschuchia citriodora 7473
Hoya 4402
Hydnocarpus sharmae 2124
Hydrocotyle sibthorpioides 12257
Impatiens bajurensis 1007
Indigofera elandsbergensis 11693
Indigofera hendecaphylla 7069
Indigofera spicata 7069
Inga unica 13287
Ipomoea, restriction fragment length polymorphism 3029
Ipomoea batatas 1806
Ipomoea peruviana 1809
Ipomopsis aggregata, chloroplast genetics 4430
Ipomopsis arizonica, chloroplast genetics 4430
Ipomopsis tenuituba, chloroplast genetics 4430
Iris spuria 11082
Ixia acaulis 4450

Taxonomy *cont.*
Jacquinia 2125
Jasminum banlanense 2238
Juniperus excelsa 8657
Juniperus procera 8657
Justicia santelisiana 6574
Kengyilia 3902
Kinabaluchloa 7558
Kniphofia leucocephala 11070
Koeleria 8093
Koeleria glauca 8092
Koeleria grandis 8092
Koeleria macrantha 8092, 12806
Koeleria pyramidata 12806
Krapovickasia macrodon 11069
Labiatae 2165
Lagerstroemia 11039
Lathyrus cassius 12258
Lathyrus hirsutus 12258
Lathyrus inconspicuus 12824
Lathyrus odoratus 12258
Leersia oryzoides, molecular genetics 1645
Leersia virginica, molecular genetics 1645
Leguminosae, databases 11694
Lens, reviews 560
Lentinula edodes, molecular genetics 13407
Lepanthes 5655
Lepiota 3439
Leptospermum 4403
Leptospermum trinervum 9847
Leucoagaricus 3439
Leucocoprinus 3439
Leymus
  gene location 7036
  restriction fragment length polymorphism 12619
Licaria applanata 8627
Lilium 7526
Liparis 7530
Liparis collinsii 4460
Liparis joannis-kornasii 8721
Liparis seidenfadeniana 5654
Liriodendron chinense 11010
Liriodendron tulipifera 11010
Liriope 9886, 13371
Lissocarpa jensonii 5573
Lithocarpus dulongensis 981
Lolium 4921
Lonicera 12006
Lotus 4960
Luziola bahiensis, molecular genetics 1645
Luziola fluitans, molecular genetics 1645
Lycopersicon, chloroplast genetics 3568
Lysimachia 6575
Lysionotus apicidens 12240
Mabea 7456
Macadamia 8463
Macadamia claudiensis 8463
Macadamia grandis 8463
Maclurochloa 7558
Maerua denhardtiorum 2126
Maerua macrocarpa 2126
Magnolia 13342
Mangifera, books 11133
Medicago scutellata 3916
Meiogyne 11016
Metrosideros 4360
Metrosideros queenslandica 4360
Metteniusa cogolloi 13114
Mezilaurus triunca 8627
Michelia jiangxiensis 4401
Microcitrus 9627
Mimulus guttatus, molecular genetics 5643
Mniochloa 6616
Mormodes paraënsis 1026
Mouriri 5571
Mouriri crassisepala 7455
multivariate analysis 2396-2397
  books 4520
Myosotis margaritae 6572
Myrcia rupta 13288
Myristica 9930
Myristica lancifolia 4482
Mysanthus uleanus 10562
Nassella 8094
Nepenthes sarawakiensis 13381

Taxonomy *cont.*
Nesphostylis
  chloroplast genetics 12925
  restriction fragment length polymorphism 12925
Neuwiedia 9899
Nothofagus 5575, 11019
nucleotide sequences, mathematics 2405
Ocimum 8743
Ocotea rugosa 8627
Oestlundorchis 4462
Olea palawanensis 4242
Olyra latifolia, molecular genetics 1645
Onagraceae, chloroplast genetics 3369
Ophiochloa hydrolithica 4937
Ophiopogon 9886, 13371
Ophrys 9898
Opuntia elizondoana 12023
Orchidaceae 4456, 9900
Osmunda cinnamomea, molecular genetics 8726
Oxalis thompsoniae 8690
Oxytropis tananensis 4970
Pachira 8625
Pachira yapacanae 8625
Palaquium zeylanicum 7469
Palmorchis imuyaensis 8716
Pandanus eydouxia 1062
Pandanus odoratissimus 11113
Panicum, multivariate analysis 11533
Panicum bombycinum 2814
Panicum chillagoanum 2814
Panicum robustum 2814
Panicum simulans 4874
Panopsis 7468
Papaveraceae, books 4517
Parahebe 13343
Parardisia 2127
Parathesis palaciosii 5572
Paspalum batianoffii 2814
Paspalum biaristatum 7045
Paspalum longiaristatum 3903
Paspalum moratii 2817
Paspalum multinodum 2814
Passiflora amoena 13115
Passiflora callistemma 13115
Pelargonium enderlicherianum 994
Pelargonium pinnatum 2195
Pelargonium quercetorum 994
Pelargonium trifoliolatum 2195
Pelargonium viciifolium 2195
Pelexia asinus 8720
Pelexia cundinamarcae 8720
Pelexia sinuosa 8720
Pentameris 4935
Peperomia 12282
Perotis clarksonii 2815
Persea fendleri 8627
Persea nudigemma 8627
Phalaris 4934
Phaseolus 10562
  chloroplast genetics 5031
  restriction fragment length polymorphism 5031
Phaseolus coccineus 8178
  chloroplast genetics 12879
Phaseolus glabellus 8178
Phaseolus polyanthus 8177-8178
Phaseolus vulgaris 8178
  chloroplast genetics 12879
Phippsia algida
  chloroplast genetics 10411
  restriction fragment length polymorphism 10411
Phleum, molecular genetics 12799
Phyllanthus 13109
Picea 13317
Picea ajanensis 11031
Pinus caribaea, chloroplast genetics 13307
Pinus elliottii, chloroplast genetics 13307
Pinus luchuensis, molecular genetics 8629
Pinus oocarpa, chloroplast genetics 13307
Piperia colemanii 1028
Piperia elegans 1028
Piresiella 6616
Platanthera calderoniae 8723
Platanthera zothecina 1027
Plectranthus 4466

Taxonomy *cont.*
Pleuropogon 7044
Pleurothallis discophylla 4457
Pleurothallis erythrogramma 4457
Pleurothallis phoenicoptera 11092
Pleurothallis steinbuchiae 11092
Pleurotus 3438
Poa 4913, 9248
Poa chushualana 12783
Poa labradorica 9246
Poaceae, chloroplast genetics 12781
Podocarpus nakaii, molecular genetics 8629
Poncirus 9627-9628
Populus 5543
  molecular genetics 5542
  random amplified polymorphic DNA 8604
Portulaca grandiflora 6600
Portulaca okinawensis 6600
Portulaca oleracea 6600
Portulaca pilosa 6600
Portulaca quadrifida 6600
Potentilla 5621, 7518
Primula veris 5644
Priogymnanthus 11018
Prosopis persica 7467
Prunus, cherries 3140
Psathyrostachys
  gene location 7036
  restriction fragment length polymorphism 12619
Pseudoclausena chrysogyne 11014
Pseudogoodyera wrightii 4461
Pteridophyta 12306
Puccinellia 7043
  chloroplast genetics 10411
  restriction fragment length polymorphism 10411
Puccinellia howellii 7043
Puccinellia nuttalliana 2819
Ranunculaceae, molecular genetics 13364
Rauhiella silvana 1030
reviews 11253, 11255, 11264
Rhododendron 9849
Rhododendron simsii 11048
Ribes aureum 10768
Ribes odoratum 10768
Rondeletia 6566
Rubus capitulatus 11989
Rubus castroviejoi 13073
Rubus cyclops 13073
Rubus dollnensis 11989
Rubus seebergensis 11989
Rubus urbionicus 13073
Ruptiliocarpon caracolito 7458
Sacoila lanceolata 1027
Saintpaulia 8688
Salix acutifolia 12192
Salix daphnoides 12192
Sarcochilus huliorum 9902
Sarcolaena isaloensis 13290
Satyrium 6594
Saxifraga nelsoniana 8691
Saxifragaceae, chloroplast genetics 3398
Schefflera 7457
Schidorhynchos 7531
Schiedeella 8722
Schizochilus 6594
Sclerochloa dura
  chloroplast genetics 10411
  restriction fragment length polymorphism 10411
Secale cereale, chloroplast genetics 4797
Secale strictum, chloroplast genetics 4797
Secale sylvestre, chloroplast genetics 4797
Sechium 11941
Sesleria insularis
  chloroplast genetics 10411
  restriction fragment length polymorphism 10411
Sicana odorifera 11941
Sideritis 9921
Sinojackia sarcocarpa 2128
Soejatmia 7558
Solanum, chloroplast genetics 3568
Solanum acaule, restriction fragment length polymorphism 12941
Solanum guamuchilense 12024

Taxonomy *cont.*
- *Solanum incanum,* chloroplast genetics 693
- *Solanum kayamae* 8738
- *Solanum marginatum,* chloroplast genetics 693
- *Solanum megistacrolobum* 12940
  - restriction fragment length polymorphism 12941
- *Solanum melongena,* chloroplast genetics 693
- *Solanum toralapanum* 12940
- *Sorbus* 8628
- *Sphenostylis*
  - chloroplast genetics 12925
  - restriction fragment length polymorphism 12925
- *Spiranthes lacera* 1027
- *Spiranthes romanzoffiana* 1027
- *Sporobolus blakei* 9275
- *Sporobolus disjunctus* 9275
- *Sporobolus metallicolus* 4938
- *Sporobolus multiramosus* 4938
- *Sporobolus pamelae* 9275
- *Sporobolus partimpatens* 9275
- *Stanmarkia* 7462
- *Stanmarkia spectabilis* 7462
- *Staphylea campanulata* 7466
- *Stetsonia* 8729
- *Stictophyllorchis pygmaea* 1029
- *Stictophyllum* 1029
- *Streptostachys rigidifolia* 4936
- *Styloceras* 4359
- *Styloceras penninervium* 4359
- *Stylosanthes* 11689
- *Swartzia gracilis* 11011
- *Swartzia oscarpintoana* 11011
- *Syzygium* 7470
- *Taeniorhachis* 7042
- *Taxus mairei,* molecular genetics 8629
- techniques 133
- *Thaleropia* 4360
- *Thelepogon australiensis* 9276
- *Theobroma cacao* 12121
  - restriction fragment length polymorphism 2048
- *Tilia nasczokinii* 3352
- *Trias antheae* 9901
- *Trichocereus* 8729
- *Tricholepis* 1029
- *Trifolium* 8116, 9299
- *Triodia* 2818
- *Triodia irritans* 2818
- *Tripsacum,* chloroplast genetics 12689
- *Trisetum* 7041, 8093
- *Triticum* 7712, 7781
  - restriction fragment length polymorphism 12550
- *Triticum duromedium* 10083
- *Tylecodon aurusbergensis* 11098
- *Tylecodon buchholzianus* 11098
- *Uapaca* 7471
- *Uapaca lissopyrena* 7471
- *Urochloa* 1646
- *Vaccinium* 11992, 13079
- *Valeriana assamensis* 11105
- *Valerianella* 8736
- *Vicia abbreviata* 7060
- *Vicia balansae* 7060
- *Vicia faba* 531
- *Vicia sativa* 11680
- Vicieae 9418
- *Vigna*
  - chloroplast genetics 3981
  - history 584
- *Vigna kokii* 6224
- *Vigna unguiculata* 7143
- *Viola* 2193
- *Viola canina* 11060
- *Viola persicifolia* 11060
- *Walsura* 11014
- *Wrightia versicolor* 12294
- *Xylopia panamensis* 7460
- *Xylopia plowmannii* 5569
- *Yakirra websteri* 2814
- *Zea,* chloroplast genetics 12689
- *Zea mays* 11490
  - nucleotide sequences 11489
  - restriction fragment length polymorphism 11489
- *Zingiber* 6612

Taxonomy *cont.*
- Zingiberales, chloroplast genetics 2401
- *Zinowiewia australis* 11013
- *Zinowiewia madsenii* 11013
- *Zizania aquatica,* molecular genetics 1645
- *Zizania texana,* molecular genetics 1645
- *Zollernia* 7463
- *Zollernia magnifica* 7463
- *Zollernia modesta* 7463
- *Zoysia japonica*
  - chloroplast genetics 8062
  - restriction fragment length polymorphism 8062

Taxus
- polymorphism, isoenzymes 12227
- taxol 4386
- tissue culture 4386
- variety classification, isoenzymes 12227

Taxus baccata
- embryo culture 12228
- genetic transformation 5608

Taxus brevifolia
- embryo culture 12228
- genetic transformation 5608

Taxus cuspidata, embryo culture 12228

Taxus mairei, molecular genetics, taxonomy 8629

Techniques 12349
- *Allium,* quality 7196
- *Allium cepa,* quality 7196
- *Arabidopsis thaliana*
  - gene expression 6672
  - mutations 6675
- biotechnology 1125
- *Brassica campestris,* turnip rape, glucosinolates 7328
- *Brassica napus*
  - rape
    - glucosinolates 7328
    - *Leptosphaeria maculans* 8485
- chromosome morphology 1191
- *Dendrobium,* genetic transformation 13375
- DNA 56, 1191, 4574, 6919, 8798, 9975
- gene expression 1016, 3485, 7607, 9989, 11193
- genetic engineering 12322-12323
  - books 13422
- genetic markers 6687, 7599, 9984
- genetic transformation 7599, 9984, 9998
- genetic variation 6687
- *Hordeum vulgare,* meiosis 5911
- *Medicago sativa,* tissue culture 6707
- mitochondrial genetics 4564, 9979
- molecular genetics 101, 3486, 4563, 7607, 12316, 12320-12321
  - books 12319, 13422
  - DNA 9999
  - RNA 9999
- mutations 101
- *Oryza sativa*
  - nucleotide sequences 8008
  - roots 11579
  - tissue culture 6707
- pests 8788
- pollination 6706
- polymerase chain reaction 1139, 3485, 6663, 8798, 8801, 9989
- protoplasts 119
- random amplified polymorphic DNA 2341, 12383
- restriction fragment length polymorphism 2341
- RNA 43
- taxonomy 133
- *Vicia faba,* polymerase chain reaction 8165
- *Zea mays*
  - chromosome banding 7908
  - restriction fragment length polymorphism 10229

Tectona grandis
- *Eutectona machaeralis* 12204
- seed production 10989

Telopea speciosissima, tissue culture 7506

Temperate fruits
- breeders' rights 3104
- breeding 13045
  - history 3103
  - reports 1069, 5686, 6621

Temperate fruits *cont.*
- diseases, reviews 3109
- genetic resources 4116-4117
- genetic transformation, reviews 3105
- *in vitro* selection, diseases 3109
- induced mutations 7246
- Nematoda 10715
- plant introduction 4117
- protoplast fusion 3107
- protoplasts, reviews 3107
- random amplified polymorphic DNA 9566
- rootstocks 10715
- vegetative propagation 3106

Temperature
- *Abies alba* 4378
- *Arabidopsis thaliana*
  - genetics 12422
  - induced mutations 12422
- *Arachis hypogaea* 12080-12081, 13159
- *Asparagus officinalis* 11872
- *Bouteloua eriopoda* 4932
- *Bouteloua gracilis* 4932
- *Brassica campestris,* turnips 10617
- *Brassica napus*
  - rape 1947, 10617
  - swedes 10617
- *Brassica oleracea,* kale 10617
- *Capsicum annuum* 708
- *Carya illinoinensis,* pollen germination 9649
- cereals 6729
- *Cicer arietinum* 10532
- crops 12371
- *Cucumis sativus* 7241
- *Elymus* × *Triticum* 4686
- *Festuca arundinacea* 7028
- *Fragaria ananassa* 8421
- *Glycine max* 9343
  - epistasis 12843
  - genetics 12843
- *Gossypium barbadense* 10968
- *Gossypium hirsutum* 10968
- *Juglans nigra* 1923
- *Juglans regia* 1923
- *Lactuca sativa* 654
- *Lens culinaris* 11768
- *Lycopersicon esculentum* 10661
- *Medicago polymorpha* 6081
- *Nicotiana tabacum* 2063, 6503
- *Oryza sativa* 428, 1551, 3819, 3829, 6028, 6036, 6973, 9211-9212
  - mutations 6995
- *Pennisetum glaucum* 378
- *Phaseolus vulgaris* 2892
- *Phleum pratense* 8091
- *Pinus banksiana* 5591
- *Pinus pinaster* 8634
- *Pseudotsuga menziesii,* gene expression 8652
- *Sequoia sempervirens* 13325
- *Solanum tuberosum* 4004, 9463
- *Sorghum bicolor* 7977
- triticale 2521
- *Triticum aestivum* 202, 2521, 3617, 4745, 6758, 7785, 10093, 11320, 12513
  - combining ability 205
  - genetic variance 12526
- *Triticum dicoccum* 2521
- *Triticum durum* 2521
- *Vigna mungo* 11782
- *Vigna radiata* 11782
- *Vigna umbellata* 11782
- *Vigna unguiculata* 8220, 11778
- *Zea mays* 1465, 5972
  - *in vitro* selection 1464

Tendrils, *Pisum sativum,* genetics 1737

Terminalia, pollination 5562

Terminalia arjuna
- polyembryony 5563
- yield correlations 8747

Terpenoids
- *Artemisia arborescens* 11041
- *Juniperus excelsa* 8657
- *Juniperus monosperma* 9827
- *Juniperus osteosperma* 9827
- *Juniperus procera* 8657
- *Scoparia dulcis* 9920

Tetraclinis articulata, tissue culture 9831

- **Tetracycline**
  - *Nicotiana tabacum*
    - gene expression 8544
    - genetic transformation 8544
- **Tetrahydrocannabinol,** *Cannabis sativa* 13251
- ***Tetranychus cinnabarinus,*** *Zea mays* 11511
- ***Tetranychus urticae***
  - *Cucumis sativus* 1864
  - *Fragaria ananassa* 9595
    - *in vitro* selection 8423
  - *Fragaria moschata, in vitro* selection 8423
  - *Fragaria vesca* 10775
  - *Prunus persica* 759
  - *Pyrus communis* 5240
  - *Ribes nigrum* 5270
- ***Tetrastigma lanceolarium,*** ornamental value 7537
- **Texture**
  - *Prunus,* cherries 750
  - *Zea mays,* seeds 6877
- ***Thaleropia,*** taxonomy 4360
- ***Thanatephorus cucumeris,*** *Oryza sativa* 8049
- ***Thea*** (*see Camellia*)
- ***Thelepogon australiensis,*** taxonomy 9276
- ***Themeda triandra***
  - apomixis 1641
  - polyploidy 1641
- ***Theobroma cacao***
  - abnormal development 10924
  - amino acids 8539
  - breeding 6471, 11268
  - centres of diversity 8538
  - chloroplast genetics, evolution 8537
  - DNA 3276
  - embryo culture 906
  - flowers 4287
  - gamma radiation 10924
  - gene banks
    - catalogues 6472
    - databases 6472
  - genetic resources 4285, 4287, 8538
    - catalogues 6472
    - databases 6472
  - genetic transformation 13199
  - genetics, *Phytophthora palmivora* 9715
  - genomes 3276
  - hybrid seed production 4286, 6473
  - mitochondrial genetics, evolution 8537
  - ovule culture 4288
  - parthenocarpy 10924
  - *Phytophthora palmivora* 9716
  - plant introduction 6471
  - pollen 10924
  - pollination 4286
  - restriction fragment length polymorphism 3276
    - evolution 8537, 9714
    - taxonomy 2048
  - *Rosellinia pepo* 13200
  - seed testing 901
  - seedlings 6473
  - seeds 6473
  - taxonomy 12121
  - tissue culture 906, 2049, 4289
  - valine 8539
  - variety trials 2047
- ***Therioaphis trifolii,*** *Medicago sativa* 2836-2837
- **Thidiazuron,** *Zea mays* 9058
- ***Thielaviopis basicola,*** *Nicotiana tabacum* 3297
- ***Thielaviopsis*** (*see also Ceratocystis*)
- ***Thielaviopsis basicola***
  - *Arachis hypogaea*
    - artificial selection 1990-1991
    - heritability 1991
  - *Nicotiana debneyi* 9731
  - *Nicotiana glutinosa* 9731
  - *Nicotiana tabacum* 4307
- **Thifensulfuron,** *Nicotiana tabacum,* genetic transformation 6508
- ***Thinopyrum*** (*see also Elymus*)
  - salinity 11650
- ***Thinopyrum distichum***
  - breeding 1637
  - chromosome banding 12801
  - chromosome morphology 12801
  - genetic resources 1637
- ***Thinopyrum distichum*** *cont.*
  - genetics 7743
  - genomes 2802
- ***Thinopyrum* × *Triticum*,** intergeneric hybridization 1637, 11650
- **Thioglucosidase**
  - *Arabidopsis thaliana,* nucleotide sequences 4583
  - *Brassica campestris,* turnip rape, nucleotide sequences 5350
  - *Brassica napus*
    - nucleotide sequences 1933
    - rape, gene expression 4208
  - *Sinapis alba,* gene expression 843
- **Thiol protease**
  - *Arabidopsis thaliana*
    - gene expression 8821
    - nucleotide sequences 8821
- **Thioltransferase,** *Oryza sativa,* nucleotide sequences 10358
- **Thioneins**
  - *Hordeum vulgare*
    - gene expression 8953
    - genetic engineering 8953
    - nucleotide sequences 8953
  - *Nicotiana tabacum*
    - gene expression 8953
    - genetic transformation 8953
- **Thionins**
  - molecular genetics 3479
  - *Nicotiana tabacum,* genetic transformation 12478
- ***Thladiantha***
  - anatomy 1867
  - leaves 1867
- ***Thlaspi* (×) *Brassica*,** protoplast fusion 7325-7326
- **Threonine**
  - *Glycine max* 517
  - *Nicotiana tabacum,* gene expression 4292
  - *Zea mays,* mutations 330
- **Threonine phosphatase,** *Arabidopsis thaliana,* nucleotide sequences 4587
- ***Thrips,*** *Gerbera* 9880
- ***Thrips palmi***
  - *Arachis hypogaea* 7368
  - *Dendranthema* 9879
- ***Thrips tabaci,*** *Allium cepa* 11862
- ***Thryptomene calycina,*** mutations, flowers 2162
- ***Thuja occidentalis***
  - tissue culture
    - cytokinins 8656
    - growth regulators 8656
- ***Thuja plicata***
  - genetic variance, statistics 9807
  - outcrossing, statistics 9807
  - population genetics, statistics 9807
- ***Thunbergia grandiflora,*** ornamental value 7537
- ***Thuranthos basuticum,*** tissue culture 2204
- **Thymidine kinase**
  - *Arabidopsis thaliana*
    - genetic markers 7619
    - genetic transformation 7619
- ***Thymus baeticus***
  - essential oils 12291
  - interspecific hybridization 3433
  - sex 12291
- ***Thymus hyemalis,*** interspecific hybridization 3433
- ***Thymus longicaulis,*** essential oils 9935
- ***Thymus pulegioides***
  - essential oils 9932
  - interspecific hybridization 9932
- ***Thymus viciosoi,*** essential oils 9932
- ***Thymus vulgaris***
  - essential oils 12299
  - mitochondrial genetics 4484
  - restriction fragment length polymorphism 4484
- ***Thymus zygis***
  - essential oils 9932
  - interspecific hybridization 3433, 9932
- ***Tilia nasczokinii,*** taxonomy 3352
- **Tillage,** *Triticum aestivum* 4718
- **Tillering**
  - *Hordeum vulgare,* genetics 8962
  - *Oryza sativa,* genetics 10368
  - *Pennisetum glaucum* 1495
  - *Psathyrostachys juncea,* polyploidy 8078
- **Tillering** *cont.*
  - *Saccharum officinarum* 882, 12107
  - *Triticum aestivum* 2514, 10094, 11320
  - *Zea mays* 9113
- ***Tilletia***
  - *Triticum aestivum* 3657
    - genetics 1257
- ***Tilletia barclayana,*** *Oryza sativa* 9236
- ***Tilletia indica***
  - *Aegilops* × *Triticum* 10140
  - triticale 248
  - *Triticum* 248
  - *Triticum aestivum* 2528, 8929, 10139, 10141
    - combining ability 249, 8927
    - gene location 6773
    - gene mapping 6773
    - genetic variance 249
  - *Triticum durum* 8929
- ***Tilletia laevis***
  - *Secale cereale* 2439
  - triticale 2439
  - *Triticum aestivum* 2439, 7809
    - genetics 8928
    - genotype environment interaction 7808
  - *Triticum boeoticum* 7803
  - *Triticum dicoccoides* 7803
  - *Triticum durum* 7809
- ***Tilletia tritici***
  - *Secale cereale* 2439
  - triticale 2439
  - *Triticum aestivum* 2439, 7809
    - genetics 8928
    - genotype environment interaction 7808
  - *Triticum durum* 7809
- **Tissue culture** 118, 4639, 5806, 5808-5811, 5813-5814
  - *Abies* 7438
  - *Abies alba* 5600
  - *Abies concolor* 5600
  - *Abies grandis* 5600
  - *Acacia albida* 2122
  - *Acacia senegal* 1061
  - *Acer pseudoplatanus* 12182
  - *Actinidia deliciosa* 6314, 9609
    - carbohydrates 8433
  - *Actinidia kolomikta* 6313
  - *Adhatoda beddomei* 4478
  - *Aegilops* × *Secale* 1382
  - *Aegle marmelos* 813, 10826, 13112
  - *Agave sisalana* 5512
  - *Agropyron* × *Triticum* 1279, 12539
  - *Albizia julibrissin* 4358
  - *Allium ascalonicum* 7195
  - *Allium cepa* 638
  - *Allium giganteum* 10636
  - *Allium govanianum* 12968
  - *Allium porrum* 638
  - *Allium sativum* 7195, 9512
  - *Allium senescens* 637
  - *Allium trifoliatum* 12969
  - *Allium tuberosum* 9512
  - *Alpinia purpurata* 9928
  - *Alstroemeria* 7525
  - *Amaryllis belladonna* 5651
  - *Anacardium occidentale* 8462
  - *Ananas comosus* 809
  - *Annona cherimola* 4196
  - *Annona muricata* 5333
  - *Anoectochilus formosanus* 7545, 12289
  - *Arabidopsis thaliana* 82, 5805, 6674, 12422
  - *Arachis hypogaea* 3240, 4259-4260, 5404, 6419, 8504
  - *Araujia sericofera* 7507
  - *Armoracia rusticana* 7559-7560
  - *Arnica montana* 9917
  - *Artemisia annua* 7547
  - *Artocarpus heterophyllus* 4195, 5332
  - *Arundinaria pygmaea* 11122
  - *Asparagus cooperi* 8727
  - *Asparagus officinalis* 5159, 8319, 12985, 12987
  - *Avena sativa* 4789
  - *Bambusa glaucescens* 11118
  - *Bambusa multiplex* 11122
  - *Bambusa oldhami* 11122
  - *Bambusa tulda* 11120
  - *Bambusa vulgaris* 11120

- **Tissue culture** *cont.*
  - *Bauhinia purpurea* 5564
  - *Beta maritima* 6457
  - *Beta vulgaris,* sugarbeet 6457, 6459, 8527-8528
  - *Betula pendula* 10991
  - *Brassica* 1938, 1956
  - *Brassica campestris* 8473
    - turnip rape 1958, 13138
  - *Brassica juncea* 12048, 13137
  - *Brassica napus,* rape 837, 1958, 3567
  - *Brassica oleracea* 8473
    - broccoli 643, 4032, 9518, 12972
    - cabbages 643, 5837, 12972
    - cauliflowers 5151
  - *Brassica* × *Sinapis* 13126
  - *Bromus inermis* 2812
  - *Cajanus cajan* 6419, 12915
    - heterosis 1759
  - *Camellia japonica* 993
  - *Camellia sinensis* 2044, 9712
  - *Camellia williamsii* 4395
  - *Capsicum* 662
  - *Capsicum annuum* 704, 3083, 4093
  - *Carica papaya* 5325, 6327, 8449, 10815-10816
  - *Carthamus tinctorius* 5392
  - *Castanea sativa* 9651
  - *Ceratonia siliqua* 7312
  - *Cereus peruvianus* 2216
  - *Chamaecyparis formosensis* 9832
  - *Chrysanthemum cinerariaefolium* 8677
  - *Cicer arietinum* 569-570, 1751, 10536-10537, 12910
  - *Cichorium* 1826
  - *Citrullus lanatus* 4109
  - *Citrus* 7305, 9623-9624, 13093
  - *Citrus aurantium* 5321
  - *Citrus limon* 7305
  - *Citrus reticulata* 10808
  - *Citrus sinensis* 804, 10808, 12013-12014
  - *Clitoria ternatea* 13383
  - *Cocos nucifera* 4241, 6394-6395
  - *Coffea arabica* 5440, 6470, 7384, 13198
  - *Coffea canephora* 5837
  - *Coffea eugenioides* 12119
  - *Coix lacryma-jobi* 4908
  - *Commiphora wightii* 8620
  - *Corchorus capsularis* 958, 4342, 5805
  - *Coriandrum sativum* 1057
  - *Cowania mexicana* 8059
  - *Cowania subintegra* 8059
  - *Crocus sativus* 9929
  - crops 1217, 1220, 6709, 10045
    - conferences 12309
  - *Cryptomeria japonica* 13327
  - *Cucumis melo* 4106-4107, 5207-5208, 8365
  - Cucurbitaceae 713
  - *Curcuma amada* 7549
  - *Cydonia oblonga* 4131, 6297
  - *Cydonia* × *Pyrus* 3108
  - *Cymbidium lancifolium* 12275
  - *Cynara cardunculus* 9533
  - *Cyphomandra betacea* 4196, 10825
  - *Dactylis glomerata* 3872-3873
  - *Datura fastuosa* 4477
  - *Daucus carota* 5118, 7175, 8284, 9481
    - molecular genetics 1800, 4015
  - *Dendranthema* 990, 5637
  - *Dendranthema grandiflora* 8671, 12248
  - *Dendranthema morifolium* 1001, 2177
  - *Dendrobium* 13378
  - *Dendrobium moniliforme* 5653
  - *Dendrobium pendulum* 7529
  - *Dendrocalamus hamiltonii* 11121
  - *Dendrocalamus longispathus* 11120
  - *Dianthus* 4428
  - *Dianthus caryophyllus* 2390, 6570, 13359
  - *Dianthus zeyheri* 3396
  - *Dioscorea alata* 625
  - *Dioscorea bulbifera* 624
  - *Drosera spathulata* 5634
  - *Elaeis guineensis* 853, 6367, 12067
  - *Elettaria cardamomum* 12297
  - *Eleusine coracana* 10332
  - *Ephedra* 1045
  - *Erica darleyensis* 12231
  - *Eriostemon myoporoides* 12234
  - *Eriostemon verrucosus* 12234
  - *Eucalyptus grandis* 7442, 10993
- **Tissue culture** *cont.*
  - *Eucalyptus gunnii,* cryopreservation 6534
  - *Eutrema wasabi* 9534
  - *Exacum affine* 3395
  - *Faidherbia albida* 7452
  - *Festuca* 11641
  - *Festuca arundinacea* 11641
  - *Festuca mairei* 11641
  - *Festuca* × *Lolium* 2793
  - *Ficus carica* 5307
  - forest trees 7438
  - *Fragaria ananassa* 3149
  - *Fraxinus angustifolia* 13276
  - *Fraxinus excelsior* 12182
  - *Fritillaria camtschatcensis* 2202
  - fruit crops 4115
  - *Galtonia candicans* 4448
  - *Galtonia viridiflora* 4448
  - *Gentiana kurroo* 1044
  - *Gerbera jamesonii* 5633, 5635
  - *Gladiolus* 8707
  - *Gloriosa superba* 13370
  - *Glycine max* 515, 1712, 4990-4992, 7086, 9351, 10484, 11715, 12859
  - *Glycyrrhiza glabra* 1043
  - *Gmelina arborea* 12199
  - *Gossypium hirsutum* 2092, 9742, 10975, 10980
  - *Guizotia abyssinica* 874
  - *Haplopappus gracilis* 1010
  - *Haworthia* 7535
  - *Helianthus annuus* 1240, 1969, 6361, 7345, 7350, 12061, 13144
  - *Helianthus argophyllus* 6361
  - *Hibiscus syriacus* 12235
  - *Hordeum vulgare* 1365, 2618, 6835, 7710, 11266
    - induced mutations 8959
  - *Howeia forsteriana* 5659
  - *Humulus lupulus* 5676, 11115
  - *Hyacinthus orientalis* 990
  - *Ipomoea batatas* 1808, 4020, 10626, 10628
  - *Iris* 2203
  - *Iris pallida* 4449
  - *Jatropha integerrima* 6565
  - *Juglans cinerea* 5337
  - *Kaempferia galanga* 11102
  - *Kalanchoe blossfeldiana* 6598
  - *Kielmeyera coriacea* 5565
  - *Lapageria rosea* 4393
  - *Lapeirousia laxa* 12268
  - *Larix* 7438
  - *Larix decidua* 4379, 5603, 8650, 12224
  - *Larix eurolepis* 12224
  - *Larix laricina* 983
  - *Larix leptolepis* 4379
  - *Lathyrus sativus* 6099
  - Leguminosae 1690
  - *Leucaena diversifolia* 4966, 9315
  - *Leucaena leucocephala* 4966, 9315
  - *Leucaena pallida* 9315
  - *Lilium japonicum* 11086
  - *Lilium rhodopaeum* 11087
  - *Linum usitatissimum,* flax 7422
  - *Liquidambar styraciflua* 12197
  - *Lonicera japonica* 4398
  - *Lupinus* 3928
  - *Lupinus albus* 3929
  - *Lupinus luteus* 485
  - *Lupinus mutabilis* 9308
  - *Lycopersicon esculentum* 662, 1240, 7223, 8334, 11885-11886
  - *Lycopersicon hirsutum* 7223
  - *Magnolia macrophylla* 5620
  - *Malus prunifolia* 7254, 11949
  - *Malus pumila* 3108, 3113, 4120, 5224, 7254, 9577, 10716, 11949-11950, 13050
  - *Mammillaria* 990
  - *Manihot esculenta* 3019, 5131
  - *Meconopsis paniculata* 8686
  - *Meconopsis simplicifolia* 1006
  - *Medicago falcata* 4944
    - germplasm releases 3917
  - *Medicago polymorpha* 2829
  - *Medicago sativa* 475-476, 1658, 10428
    - techniques 6707
  - *Medicago varia* 4944
  - *Metroxylon sagu* 13399
  - *Miscanthus sinensis* 3900
- **Tissue culture** *cont.*
  - *Musa* 8439, 10802-10803, 12008, 13091
  - *Mussaenda erythrophylla* 4394, 11043
  - *Nerium oleander* 13338
  - *Nicotiana tabacum* 2073, 3567, 5814
  - *Nymphaea* 7538
  - *Olea europaea* 5397, 6410
  - *Oncidium* 13378
  - *Oncidium varicosum* 8714
  - *Onobrychis viciifolia* 8129
  - Orchidaceae, books 7572
  - *Orchis incarnata* 9918
  - ornamental woody plants 4115
  - *Oryza sativa* 433-434, 1572, 1575, 1578-1579, 1581, 6042, 6969, 6983, 6986-6988, 8027, 11595, 12743
    - combining ability 1570
    - cryopreservation 10377
    - gene expression 11563
    - genetics 3838
    - heritability 1570
    - molecular genetics 11563
    - techniques 6707
  - *Otatea acuminata* 11119
  - *Panax pseudoginseng* 1046
  - *Passiflora amethystina* 7313
  - *Passiflora edulis* 7313
  - *Passiflora giberti* 7313
  - *Passiflora maliformis* 7313
  - *Passiflora mollissima* 7313
  - *Paulownia fortunei* 8619
  - *Pelargonium graveolens* 12237
  - *Pelargonium hortorum* 3374, 4399, 12236
  - *Pennisetum glaucum* 11540
  - *Pennisetum purpureum* 11540
  - *Phalaenopsis* 12273, 13378
  - *Phaseolus acutifolius* 1725
  - *Phaseolus vulgaris* 1725, 3962, 12882
  - *Phoenix dactylifera* 1217, 5328, 8450
  - *Phyllanthus fraternus* 13113
  - *Phyllostachys aurea* 11122
  - *Picea* 7438
  - *Picea abies* 4375-4376, 5597, 13315
  - *Pinellia ternata* 7545, 12289
  - *Pinus* 7438
  - *Pinus banksiana* 983
  - *Pinus contorta* 9816
  - *Pinus monticola* 983
  - *Pinus nigra* 5589
  - *Pinus patula* 5590
  - *Pinus pinea* 6550
  - *Piper betle* 7550
  - *Piper longum* 13391
  - *Pistacia atlantica* 9657
  - *Pistacia integerrima* 9657
  - *Pistacia vera* 9657
  - *Pisum sativum* 554, 1730, 2390, 4972, 5048, 6189
    - genetic transformation 8186
  - *Plantago ovata* 7546
  - *Platycodon grandiflorus* 7545, 12289
  - *Polymnia sonchifolia* 4024, 5139, 10633
  - *Populus* 7438, 9789
  - *Populus alba* 6538
  - *Populus grandidentata* 6538
  - *Populus nigra* 5541
  - *Pouteria lucuma* 5334
  - *Prunus,* plums 11961
  - *Prunus armeniaca* 742
  - *Prunus avium* 7277, 7438, 12182
  - *Prunus domestica* 3108
  - *Prunus dulcis* 8454
    - storage 10759
  - *Prunus persica* 5260, 11978
    - storage 10759
  - *Prunus serrulata* 4133
  - *Prunus tomentosa* 4133
  - *Pseudotsuga menziesii* 9826
  - *Pteris ensiformis* 5658
  - *Pyrus communis* 4129, 10716
  - *Pyrus kawakamii* 1895
  - *Pyrus pyrifolia* 1895, 3108, 10738
  - *Quassia simarouba* 13286
  - *Quercus acutissima* 4349, 12185
  - *Quercus cerris* 7444
  - *Quercus petraea,* reviews 13268
  - *Quercus robur* 7444, 10998
    - reviews 13268
  - *Quercus rubra* 7444
  - *Quercus suber* 2114

Tissue culture *cont.*
  Ranunculus asiaticus 7514
  Raphanus sativus 3032-3033
  Rauvolfia caffra 5666
  Rauvolfia serpentina 1048
  Rehmannia glutinosa 7545, 12289
  Renanthera imschootiana 7528
  reviews 122
  Rheum emodi 1047
  Rhododendron 3375-3376, 11042
  Ribes
    black currants 10767
    red currants 10767
  Ricinus communis 1992
  Robinia pseudoacacia 4357, 8618
  Rosa 5675
  Rosa hybrida 13348
  Rubus 13072
    blackberries 763
    raspberries 762, 764
  Rubus idaeus 5267, 11988
  Saccharum 884, 886, 9700
  Saccharum officinarum 885, 888-889, 2012, 3260, 5417, 8514, 12104
  Saintpaulia ionantha 7516
  Salix caprea 7450
  Secale × triticale 10211
  Secale × *Triticum* 3703
  Sempervivum tectorum 6605
  Senecio hybridus 7517, 13358
  Sesamum indicum 12098
  Sesbania bispinosa 492
  Sesbania cannabina 492
  Sesbania formosa 492
  Sesbania sesban 492
  Solanum 122
  Solanum commersonii 610
  Solanum dulcamara 5805
  Solanum melongena 662, 692
  Solanum muricatum 4196
  Solanum oplocense 611
  Solanum sparsipilum 611
  Solanum tuberosum 609, 611, 1788, 2967, 5093, 5099, 5101, 5837, 7162, 8250, 10581-10583, 11822-11824, 12930, 12936
  Sorghum 9172
  Sorghum bicolor 6935, 12693
  spice plants 6611
  Spinacia oleracea 4040
  Stenotaphrum secundatum 6073
  Stevia rebaudiana 13193
  Swertia chirata 9918
  Tagetes mendocina 6603
  Tamarix gallica 4356
  Taxus 4386
  Telopea speciosissima 7506
  Tetraclinis articulata 9831
  Theobroma cacao 906, 2049, 4289
  Thuja occidentalis
    cytokinins 8656
    growth regulators 8656
  Thuranthos basuticum 2204
  Trifolium pratense 2390
  Trifolium repens 2390, 3925, 8115
  Trifolium subterraneum 2839
  Trillium erectum 6588
  Trillium grandiflorum 6588
  triticale 3567, 3703, 11285
  Triticum aestivum 200, 223, 2252, 3567, 5879, 6745, 7710, 8888, 11266, 11333, 11335
    combining ability 4707
    gene location, reviews 221
    genetics, reviews 221
  Tylophora indica 7544
  Ulmus, storage 5552
  Ulmus minor, storage 5552
  Vaccinium corymbosum 4148, 7285, 10770
  Vaccinium macrocarpon 10769
  Vaccinium vitis-idaea 11991
  Verbena tenera 8685
  Vetiveria zizanioides 6614
  Vicia faba 1240, 4972
  Vigna radiata 10559, 11787
  Vigna unguiculata 9429
  Vitis rupestris 13084
  Vitis vinifera 779-780, 5289, 5291, 10790-10791, 13086
  woody plants, books 5702

Tissue culture *cont.*
  Xanthosoma brasiliense 8297
  Xanthosoma robustum 8297
  Xanthosoma sagittifolium 8297, 11858
  Zea 9053
  Zea mays 336, 6896, 7937-7938, 9078, 9120, 9124, 9126-9129, 10274
    combining ability 10275
    gene expression 4833
    genetic variance 10275
  Zingiber officinale 7551
Tobacco etch potyvirus
  Capsicum 8363
  Capsicum annuum 8362
  Capsicum chinense 8362
  Nicotiana tabacum
    gene expression 4310
    genetic engineering 9733
    genetic transformation 4310, 7392
    genetics 3308
    linkage 7392
Tobacco mosaic tobamovirus
  Capsicum annuum 4096
  genetic engineering 6662
  Lycopersicon 10683
  Lycopersicon esculentum 3062, 8353
    genetic transformation 8351
    somaclonal variation 1845, 11896
  Lycopersicon peruvianum, genetic transformation 8351
  Nicotiana benthamiana, genetic transformation 5475
  Nicotiana glutinosa
    genetic transformation 9734
    genetics 10942
  Nicotiana sylvestris, gene expression 5468
  Nicotiana tabacum 2076, 5479
    artificial selection 8563
    gene expression 918, 2076, 3303, 5469, 5478, 6503-6504, 6506, 10950, 13227
    genetic engineering 5471-5472
    genetic transformation 3303, 3307, 4308, 5473, 5475, 5478, 6504, 9734, 10950, 13227
    genetics 10942
    molecular genetics 3309, 6505, 6507
    nucleotide sequences 6506
  Solanum tuberosum 3003
Tobacco necrosis necrovirus, *Glycine max* 2875
Tobacco rattle tobravirus
  Nicotiana tabacum
    gene expression 8567
    genetic transformation 8567
Tobacco ringspot nepovirus, *Glycine max* 8772
Tobacco vein mottling potyvirus
  Nicotiana tabacum
    gene expression 10946
    genetic transformation 10946
    genetics 3308
Tocopherols
  Arachis hypogaea 6420
  Helianthus annuus, genetics 7346
  Olea europaea 9686
  Persea americana 5327
Tocotrienols, *Olea europaea* 9686
Tolyposporium penicillariae
  Pennisetum glaucum 12702
    combining ability 7986
Tomato aspermy cucumovirus, *Aster* 8695
Tomato chlorotic spot tospovirus, *Lycopersicon esculentum,* genetics 6280
Tomato golden mosaic bigeminivirus
  Nicotiana tabacum
    genetic engineering 5477
    genetic transformation 3305
Tomato mosaic tobamovirus, *Lycopersicon esculentum,* genetic transformation 8352
Tomato spotted wilt tospovirus
  Arachis hypogaea 5403
    gene expression 12077
    genetic transformation 12077
  Capsicum annuum, genetics 11900
  Capsicum chinense 4097
    genetics 11900
  crops
    genetic engineering 9967

Tomato spotted wilt tospovirus *cont.*
  crops *cont.*
    genetic transformation 9967
  Lycopersicon 3077
  Lycopersicon esculentum 6272, 7233
    gene expression 10952
    genetic transformation 10952
    genetics 6280
  Nicotiana benthamiana, genetic transformation 10944
  Nicotiana tabacum
    gene expression 10952
    genetic transformation 10952
Tomato yellow leaf curl bigeminivirus
  Lycopersicon chilense
    gene mapping 9553
    genetic transformation 681, 10685
    genetics 9553
    restriction fragment length polymorphism 9553
  Lycopersicon esculentum 5190, 10684, 13020
    gene mapping 9553
    genetic transformation 681, 11895
    genetics 9553
    restriction fragment length polymorphism 9553
  Lycopersicon hirsutum, genetic transformation 681, 10685
  Lycopersicon pennellii, genetic transformation 11895
  Lycopersicon peruvianum 5190
  Lycopersicon pimpinellifolium 5190
Tomato yellow top luteovirus
  Lycopersicon 7232
  Lycopersicon peruvianum 7232
Torreya taxifolia, genetic variation, isoenzymes 11033
Toxic soils (*see* Soil toxicity)
Toxic substances 2391
  Acer saccharum 5522
  Aegilops × *Triticum*
    chromosome addition 6763
    chromosome substitution 6763
  aluminium, reviews 8784
  Avena sativa 11402
  Brassica alboglabra 5149
  Citrus 13100
  Colocasia esculenta 9491-9492
  Datura fastuosa 6606
  Fragaria ananassa, in vitro selection 3151
  Glycine max 4994, 9368
  Haplopappus gracilis 1010
  Hordeum vulgare 4772, 8965
    in vitro selection 287
  Lactuca sativa 4046
  Lycopersicon esculentum 5188, 10030
    in vitro selection 3073
  Malus pumila 3118
  Medicago sativa 9286, 9289
  Mimulus guttatus 1011
    heritability 4432
    natural selection 4432
  Nicotiana tabacum 2073, 13233
    genetic transformation 7391
    genetics 6494
  Oryza sativa 1593, 4895, 4897, 6024, 12754, 12758-12759
  Papaver somniferum 1052
  Phalaris aquatica, genetics 2820
  Pinus nigra 6548
  Pinus strobus 5522
  Pinus sylvestris 6548
  Pisum sativum 559
  Populus tremuloides 5522, 5545-5546
  Secale cereale, heterosis 10065
  Sorghum bicolor 1485, 3777
  Trifolium repens 4950
  Trifolium subterraneum 11676
  triticale
    in vitro selection 2664
    somaclonal variation 10065
  triticale × *Triticum,* chromosome translocation 8886
  Triticeae 12558
  Triticum aestivum 236, 2515-2516, 2537, 3651, 4722-4723, 4739, 6763, 10123, 11349, 11353, 12558
    artificial selection 2519
    chromosome translocation 8886

- **Toxic substances** *cont.*
  - *Triticum aestivum cont.*
    - gene expression 3646
    - gene location 10065
    - genetics 3644-3645
    - heritability 3650
    - molecular genetics 3646
  - *Triticum durum* 3651
  - *Vigna unguiculata* 12919
  - *Zea mays* 343, 6899, 9145-9146
    - artificial selection 3762
    - molecular genetics 5986
- ***Tradescantia***
  - chemotaxonomy 2194
  - flavonoids 2194
  - induced mutations
    - androecium 12256
    - colour 12256
    - plant hairs 12256
  - methyl methanesulfonate 12256
  - mutagens 12256
  - mutations
    - colour 9876
    - flowers 9876
  - X radiation 12256
- ***Tradescantia commelinoides,*** molecular genetics, chromosome morphology 2376
- ***Tradescantia paludosa***
  - gene expression, pollen 2176, 12247
  - genetic transformation, pollen 2176
  - nucleotide sequences, pollen 12247
- **Transduction,** flowering 1199
- **Transfer RNA**
  - *Helianthus annuus*
    - chloroplast genetics 12058
    - mitochondrial genetics 12058
    - nucleotide sequences 12058
    - polymerase chain reaction 12058
  - *Oenothera berteriana*
    - mitochondrial genetics 11059
    - nucleotide sequences 11059
  - *Pinus thunbergii*
    - chloroplast genetics 12208
    - nucleotide sequences 12208
- **Transferases**
  - *Lycopersicon esculentum*
    - gene expression 12997
    - nucleotide sequences 12997
- **Transgression,** *Triticum aestivum* 1263
- **Translocation**
  - *Arabidopsis thaliana*
    - gene expression 3523
    - molecular genetics 3523
  - *Arachis hypogaea* 7361
  - *Aster lanceolatus* 1004
  - *Chenopodium rubrum,* gene expression 12775
  - *Glycine max* 10476
  - *Lycopersicon esculentum* 10661
  - *Nicotiana tabacum* 13227
  - *Oryza sativa* 9214
  - *Phaseolus vulgaris* 5033
  - *Pisum sativum* 7110
    - induced mutations 8195
  - *Solanum tuberosum,* gene expression 3999
  - *Trifolium repens* 4952
  - *Triticum aestivum* 1298
  - *Zea mays* 9145
- **Translocation, cytological** (*see* Chromosome translocation)
- **Translocators**
  - *Flaveria pringlei*
    - gene expression 4816
    - genetic engineering 4816
    - nucleotide sequences 4816
  - *Flaveria trinervia*
    - gene expression 4816
    - genetic engineering 4816
    - nucleotide sequences 4816
  - *Zea mays*
    - gene expression 4816
    - genetic engineering 4816
    - nucleotide sequences 4816
- **Transpiration**
  - *Agropyron desertorum* 4925
  - *Gossypium* 6521, 9752
  - *Malus pumila* 9575
  - *Oryza sativa* 2754
  - *Phaseolus vulgaris* 8173
- **Transpiration** *cont.*
  - *Pinus ponderosa* 5584
  - *Triticum aestivum*
    - genetic variance 12537
    - heritability 12537
- **Transposable elements**
  - *Antirrhinum majus* 1404, 6579-6580
    - colour 4436
    - flowers 4436
    - naringenin-chalcone synthase 4436
    - *Puccinia antirrhini* 3411
    - self incompatibility 3406
  - *Arabidopsis thaliana* 11225
    - colour 8815
    - gene expression 1158, 6579, 7634
    - gene mapping 2353
    - genetic transformation 2353, 3505, 6579
    - genetics 3505
    - molecular genetics 1158
  - databases 9986
  - *Datura fastuosa* 10242
  - evolution 2318
  - gene mapping 1127
  - genetic transformation 1127
  - *Glycine max* 2861
  - *Gossypium herbaceum,* evolution 4320
  - *Gossypium hirsutum,* evolution 4320
  - *Gossypium raimondii,* evolution 4320
  - *Lactuca sativa*
    - gene expression 4044
    - genetic transformation 4044
  - *Linum usitatissimum,* flax, *Melampsora lini* 956
  - *Lycopersicon* 6481
  - *Lycopersicon esculentum* 10658
    - chlorophyll 9543
    - gene mapping 10655
    - genetic markers 7210
    - genetic transformation 3054, 5170, 7210, 8328, 10655
    - hygromycin phosphotransferase 9538
    - polymerase chain reaction 7210
    - restriction fragment length polymorphism 3054
    - spectinomycin adenyltransferase 11880
    - streptomycin 11880
    - variegation 9543, 11880
  - *Lycopersicon pennellii*
    - genetic markers 7210
    - genetic transformation 7210
    - polymerase chain reaction 7210
  - messenger RNA 9986
  - molecular genetics 1157
  - *Nicotiana* 6481
  - *Nicotiana plumbaginifolia*
    - genetic transformation 10930
    - molecular genetics 923
    - nucleotide sequences 4295
  - *Nicotiana tabacum* 6481
    - gene expression 3718, 6579, 8562
    - gene mapping 919
    - genetic transformation 3718, 6579, 7888, 7891, 7904, 9049
    - molecular genetics 922, 924, 2058
    - spectinomycin adenyltransferase 11880
    - streptomycin 11880
    - variegation 11880
  - nucleotide sequences 9981
  - *Oryza* 12725
    - evolution 12726
    - molecular genetics 4885
  - *Oryza sativa* 3813
    - gene expression 7898
    - genetic transformation 7898
    - molecular genetics 4885
    - nucleotide sequences 11441
  - *Petunia* 4821
  - *Petunia hybrida* 11443
    - gene expression 3729
    - genetic transformation 3729, 13366
  - *Pharbitis nil*
    - dihydrokaempferol 4-reductase 8675
    - flowers 8675
  - reviews 11176
  - *Zea,* spikelets 10263
  - *Zea mays* 317-318, 1404, 2674, 5964, 5966, 7895, 7897, 7899, 7902, 7930, 9011, 9034-9036, 9039, 9054,
- **Transposable elements** *cont.*
  - *Zea mays cont.*
    - 9067, 9076, 10242, 10261, 11443, 11498, 12663
    - adenosinetriphosphatase 12660
    - amylose 3720
    - anthocyanins 9101
    - chromosome breakage 9050
    - chromosome translocation 9040
    - colour 9032, 10249, 11445
    - gene dosage 3727
    - gene expression 3054, 3718, 3729, 4044, 4821, 5965, 7888, 7891, 7898, 7904, 9049, 11430, 13366
    - gene location 9040
    - genetic engineering 919, 3054, 3505, 3718, 4044, 4821, 5170, 7888, 7891, 7898, 7904, 13366
    - genetic markers 3730
    - genetics 9045
    - 1,4-α-glucan branching enzyme 3720
    - molecular genetics 1403, 3731, 7887, 7894, 9048, 11428, 11441, 12664
    - mutations 12665
    - nucleotide sequences 11430
    - ovules 3726
    - pollen 3726
    - *Puccinia sorghi* 1468, 3768
    - restriction fragment length polymorphism 12665
    - reviews 5963
    - seeds 11445
    - spikelets 10263
    - zein 10225
- **Transposase,** *Arabidopsis thaliana,* gene expression 7634
- **Trees**
  - biotechnology 5517
  - genetic resources 2109
  - plant introduction 2109
- ***Trialeurodes vaporariorum***
  - *Medicago lupulina* 2835
  - *Solanum tuberosum* 616
- ***Trias antheae,*** taxonomy 9901
- **Triazines**
  - *Amaranthus* 12053
  - *Brassica napus,* rape 12053
  - *Chenopodium* 12053
- **Tribenuron,** *Nicotiana tabacum,* genetic transformation 6508
- ***Tribolium,*** embryo sac 8088
- ***Tribolium castaneum,*** *Pennisetum glaucum* 2723, 9192
- ***Tribolium ciliare,*** meiosis 8087
- ***Tribolium confusum,*** *Triticum aestivum* 11368
- ***Tribolium echinatum,*** meiosis 8087
- ***Tribolium hispidum,*** meiosis 8087
- ***Tribolium utriculosum,*** meiosis 8087
- **Trichlorfon,** *Hordeum vulgare* 11383
- ***Trichocereus***
  - seeds 8729
  - taxonomy 8729
- ***Trichoconis*** (*see Alternaria)*
- ***Tricholepis***
  - nomenclature 1029
  - taxonomy 1029
- ***Trichomanes speciosum***
  - ecology 1032
  - reproduction 1032
- **Trichomes** (*see* Plant hairs)
- ***Trichometasphaeria*** (*see Setosphaeria)*
- ***Trichoplusia ni***
  - *Apium graveolens* 9526, 10649
  - *Brassica oleracea,* kale 11867
  - *Glycine max* 9377
- ***Trichosanthes cucumerina***
  - chromosome aberrations 1865
  - polyploidy 1865
  - X radiation 1865
- **Trifluralin**
  - *Gossypium hirsutum,* germplasm releases 4323
  - *Setaria viridis* 2719
- ***Trifolium***
  - chromosome morphology 10437
  - chromosome number 10437
  - genetic resources 6085-6086, 7052, 11670
  - outcrossing 11670

Trifolium *cont.*
- plant composition 6060
- plant introduction 6085-6086
- self pollination 11670
- taxonomy 8116, 9299

Trifolium alexandrinum
- *in vitro* selection
  - oxalic acid 6061
  - *Sclerotinia sclerotiorum* 6061
  - *Sclerotinia trifoliorum* 6061
- multivariate analysis 482
- seed testing 2782
- somaclonal variation, chromosome number 7053
- variety classification 2782
- variety trials 2782
- yield components 482

Trifolium ambiguum, artificial selection, flowering 8113

Trifolium fragiferum, salinity 7057

Trifolium hirtum
- hermaphroditism 3923
- inbreeding depression 10434
- male sterility 3923
- sexual reproduction 10434

Trifolium hybridum
- clonal variation 8108
- restriction fragment length polymorphism 8108
- varieties 4646

Trifolium incarnatum
- *in vitro* selection
  - oxalic acid 6061
  - *Sclerotinia sclerotiorum* 6061
  - *Sclerotinia trifoliorum* 6061

Trifolium pratense
- *Acyrthosiphon pisum* 9305
- amino acids 12817
- artificial selection 4948
  - cold resistance 11619
  - *Fusarium roseum* 11619, 11678
  - *Sclerotinia borealis* 11619
  - *Typhula ishikariensis* 11619
- bean yellow mosaic potyvirus 7059
- breeding 2838, 12778
- chromosome morphology 8109
- chromosome number 8109
- clonal variation 8108
- cold resistance 4953, 11278, 11618
- cutting 9300, 11675
- dimethyl sulfate 2841
- electrical properties 11278
- *Erysiphe* 4954
- forage 10436
- *Fusarium oxysporum* 7059, 12817
- *Fusarium solani* 7059, 12817
- *in vitro* selection, *Sclerotinia trifoliorum* 2840
- induced mutations, *Sclerotinia trifoliorum* 2841
- molecular genetics, somaclonal variation 3922
- mutagens 2841
- mutations
  - flowering 8110, 9294
  - gibberellins 8110
  - growth regulators 8110
- polyploidy 1660, 10435, 10438
- protoplasts 8114
- restriction fragment length polymorphism 8108
- saccharides 4953
- *Sclerotinia trifoliorum* 11677
- seed production 11675
- self incompatibility 10438
- synthetic varieties 2838
- tissue culture 2390
- variety trials 4949
- varieties 4646, 10392
  - AC Kingston 10436
  - Apollo-Tetra 10435
  - Cinnamon 9292
  - Ilte 2781
  - Varte 2781

Trifolium repens
- aluminium 4950, 7058
- artificial selection
  - drought resistance 2780
  - nitrogen 7055
  - nutrients 7055
  - phosphorus 7055

Trifolium repens *cont.*
- artificial selection *cont.*
  - seasonal growth 2780
  - yield components 6088
- breeding 11671
- chromosome morphology 8109
- chromosome number 8109
- clonal variation 8108
- combining ability
  - alfalfa mosaic alfamovirus 11679
  - clover yellow vein potyvirus 11679
  - peanut stunt cucumovirus 11679
- competitive ability 9302
- crop mixtures 9302, 11644
  - *Cynodon dactylon* 6088, 8117
  - *Lolium multiflorum* 6089
  - *Lolium perenne* 6089
- cryopreservation 3925
- drought resistance 451
- ecotypes 6087, 11674
- genetic resources 4947, 6087, 8112
- genetic transformation 8107
- genetic variance
  - alfalfa mosaic alfamovirus 11679
  - clover yellow vein potyvirus 11679
  - peanut stunt cucumovirus 11679
  - persistence 11674
  - yield components 11674
- genetics
  - habit 9298
  - internodes 9298
  - nutrients 1661
  - phosphorus 1661
- germplasm releases
  - habit 9298
  - internodes 9298
- grazing 1662
- heritability
  - nitrogen 7055
  - nutrients 7055
  - persistence 11674
  - phosphorus 7055
  - yield components 11674
- interspecific hybridization 11673
- molecular genetics, linamarase 9293
- nitrogen 4951
- nucleotide sequences, linamarase 9293
- nutrients 4950-4952, 7056, 9303
- persistence 1662, 7056, 9296, 11671
- phosphorus 4950, 4952, 7056, 7058, 9303
- population genetics
  - cyanogens 9297
  - linamarase 9297
- restriction fragment length polymorphism 8108
- shade 9295
- soil toxicity 7058
- soil water 4950
- source sink relations 4952
- tissue culture 2390, 3925, 8115
- toxic substances 4950
- translocation 4952
- variety classification 451
- white clover mosaic potexvirus 9304
- yield correlations 8112
- varieties 4646, 10392
  - Tooma 2781

Trifolium resupinatum
- seed testing 2782
- variety classification 2782
- variety trials 2782

Trifolium subterraneum
- aluminium 11676
- calcium 11676
- chlorosis 9301
- environment 481
- flowering 481
- gene expression
  - injuries 12816
  - naringenin-chalcone synthase 12816
  - nutritive value 8133
  - proteins 8133
  - *Rhizobium* 12816
- genetic resources 481
- genetic transformation 11672
  - nutritive value 8133
  - proteins 8133
- genotype environment interaction, digestibility 12815
- grazing 7054

Trifolium subterraneum *cont.*
- growth period 8111
- hard seeds 3924, 8111
- iron 9301
- nucleotide sequences, naringenin-chalcone synthase 12816
- nutrients 11676
- persistence 8111
- *Phytophthora clandestina* 12818
- tissue culture 2839
- toxic substances 11676

Trifolium xerocephalum, interspecific hybridization 11673

Trigonella foenum-graecum
- breeding 5164, 5671
- ethyl methanesulfonate 11690
- genetic resources 5671
- induced mutations 11690
- mutagens 11690
- proteins 5671

Trigonella ruthenica
- isoenzymes 490
- peroxidases 490

Trihydroxystilbene synthase
- *Nicotiana tabacum*
  - gene expression 6499
  - genetic transformation 6499
- *Vitis vinifera,* genetic engineering 6499

Trillium erectum, tissue culture 6588

Trillium grandiflorum, tissue culture 6588

Triodia, taxonomy 2818

Triodia irritans, taxonomy 2818

Triose-phosphate isomerase
- *Arabidopsis thaliana,* nucleotide sequences 8809
- *Rubus idaeus,* genetics 1899
- *Rubus neglectus,* genetics 1899

Triplochiton scleroxylon, breeding 5559

Tripsacum, chloroplast genetics, taxonomy 12689

Tripsacum dactyloides
- apomixis 12688
- backcrossing 12688
- chromosome addition 12688
- fatty acids 11516
- forage 7946
- oils 11516
- polyploidy 12688
- storage, pollen 1471

Tripsacum lanceolatum, storage, pollen 1471

Tripsacum* × *Triticum
- haploidy 3607
- intergeneric hybridization 3607

Tripsacum* × *Zea
- *Diabrotica virgifera* 7969
- forage 7946
- intergeneric hybridization 3732, 7906, 7946, 7969
- pollen 3732

Trisetum
- chromosome morphology 2810, 7041
- taxonomy 7041, 8093

Triterpenoids, *Tanacetum vulgare* 8739

Triticale
- aluminium 11356
- α-amylase 4798
- anther culture 1389, 2662-2663
- anthers 10213
- artificial selection 3701
  - yields 8984
- barley yellow dwarf luteovirus 7716
- breeding 1387, 5940, 8985, 10210, 11279
- chlormequat 4805-4806
- chlorophyll 10213
- chromosome aberrations 1389, 7874, 8989
- chromosome addition, secalins 6867
- chromosome morphology 298
- chromosome pairing 298, 7874
- chromosome substitution 2475, 3700, 3704, 6872
- chromosome translocation
  - glutenins 10214
  - quality 10214
- *Claviceps purpurea* 3699, 10066
- *Cochliobolus sativus* 4660
- cold resistance 11291
- combining ability, yield components 6873
- 2,4-D 3666

Triticale *cont.*
- *Diuraphis noxia* 4807
- embryo culture 3703
- ethephon 4805-4806
- ethyl methanesulfonate 3576, 6731, 8988-8989
- fertility 299
- forage 2663
- *Fusarium* 2437, 3581
- gametoclonal variation 2662
- gamma radiation 3576, 6731, 8988-8989
- gene banks 152, 7690
- gene expression, heat shock proteins 11413
- gene mapping 7692
- genetic markers, secalins 6867
- genetic resources 5940
- genetic transformation 8987
- genetic variance, *Gibberella zeae* 2666
- genetics, regenerative ability 4801
- genomes
  - *Erysiphe graminis* 4659
  - *Puccinia* 4659
- genotype environment interaction 3704
  - dormancy 12649
  - nitrogen 5942
  - nutrients 5942
  - yield components 5942, 6873
- germination 2521
- *Gibberella* 3581
- *Gibberella zeae* 4660
- grain shrivelling 4800, 8993
- growth regulators 4805-4806
- herbicides 3666
- heritability
  - dormancy 12649
  - lodging 4799
  - stems 4799
- heterochromatin 4802, 8993
- heterosis, yields 8984
- hydroponics 2663
- *in vitro* culture 162
- *in vitro* selection
  - *Gibberella zeae* 2664
  - toxic substances 2664
  - vomitoxin 2664
- induced mutations
  - chlorophyll 3576, 6731
  - yield components 8988
- intergeneric hybridization 4659
- isoproturon 3666
- *Leptosphaeria avenaria* 6778
- *Leptosphaeria nodorum* 6778, 6874, 8996
- low input agriculture 1252
- male sterility 3701, 5940
- metoxuron 3666
- mitochondrial genetics 10059
  - adenosinetriphosphatase 8991
  - cytoplasmic male sterility 8991
- *Monographella nivalis* 2665, 8997, 11291
- mutagens 3576, 6731, 8988-8989
- nitrogen 4805-4806
- nucleocytoplasmic interaction 10059, 12648
- nutrients 4805-4806
- photosynthesis 10213
- polymerase chain reaction, secalins 6867
- polyploidy 299, 8990
- precipitation 8992
- prolamins 2662
- proteins 10213
- protoplasts 8987
- quality 4660, 4803-4804, 4806, 6741, 7875, 8995, 10212
- reducing sugars 4798
- salinity 7876
- seeds 4800, 10213
- sodium azide 3576, 8988-8989
- soil pH 3704
- soil toxicity 11356
- somaclonal variation 4802, 11285
  - aluminium 10065
  - toxic substances 10065
  - yield components 300
- sprouting 3702, 4798, 4800, 12650
- stability 1252
- temperature 2521
- *Tilletia indica* 248
- *Tilletia laevis* 2439

Triticale *cont.*
- *Tilletia tritici* 2439
- tissue culture 3567, 3703, 11285
- variety classification 2661
- variety trials 153, 6741, 8867
- yield correlations 5943, 8984, 10212
- varieties 134, 153
  - Altaĭskaya-2 4646
  - Amfidiploid-44 4646
  - Bei Lian-1 8986
  - Meridal 2660
  - Sandro 1388
  - Zhong Qin-2 8986
  - Zhong Si-1890 8986
  - Zhong Xin-830 8986

Triticale × *Secale*, intergeneric hybridization 10211

Triticale × *Triticum*
- anther culture 1389
- barley yellow dwarf luteovirus 7716
- chromosome aberrations 1389
- chromosome addition
  - lysine 8994
  - proteins 8994
- chromosome banding 5941
- chromosome pairing 5941
- chromosome substitution 2475, 6872
  - drought resistance 4725
  - soil pH 4725
- chromosome translocation
  - aluminium 8886
  - quality 8886
  - toxic substances 8886
- embryo culture 5842
- haploidy 5941
- intergeneric hybridization 1389, 2475, 4725, 5842, 5941, 6872, 7716, 8868, 8886, 8994

Triticeae
- aluminium 12558
- barley yellow dwarf luteovirus 3580, 8063
- breeding 7742
- copper 12558
- cytology 10062
- *Diuraphis noxia* 6739
- *Erysiphe graminis* 3580, 6063
- gene mapping 3574, 7705
- genetics 11312
- immunology, prolamins 6733
- intergeneric hybridization 7707
- interspecific hybridization 7707
- molecular genetics 3574, 7727, 8881
  - evolution 6735
- *Puccinia recondita* 6063
- *Puccinia striiformis* 6063
- restriction fragment length polymorphism 8881
- salinity 1253, 10393, 12558
- *Sphenophorus parvulus* 4928
- stress 12558
- toxic substances 12558

Triticeae × *Triticum*, intergeneric hybridization 7707

Triticum (*see also Aegilops*)
- anther culture 3626, 4709-4710, 10113, 11338
- breeding 2494, 5839
  - history 166
- chromosome substitution 10113
- chromosome translocation 2466
- *Cochliobolus sativus* 7806
- cold resistance 7784, 7791
- *Diuraphis noxia* 8873
- DNA hybridization 10078
- drought resistance 6768, 7790
- esterases 6776
- *Fusarium* 6776
  - reviews 2536
- gene banks 5852, 7690
- gene expression, apocytochrome *b* 142
- gene location, chromosome pairing 1282
- gene mapping, chromosome pairing 1282
- genetic distance 10078
- genetic markers, quality 10115
- genetic resources 166, 2446, 5839, 5852, 7719, 7741, 7777, 7795
  - databases 9263
- genetics, *Mayetiola destructor* 263
- genomes 2481, 8899
  - *Erysiphe graminis* 4659

Triticum *cont.*
- genomes *cont.*
  - *Puccinia* 4659
- gliadin 7777
- glutenins 7777, 7795
- haploidy 7744
- heat resistance 7791
- *Helminthosporium* 6776
- hybrid seed production 8885
- inflorescences 7712
- intergeneric hybridization 4659
- interspecific hybridization 3655
- isoenzymes 6776
- *Leptosphaeria nodorum* 3655
- linkage
  - milling quality 5849
  - salinity 5849
- *Mayetiola destructor* 6805
- mitochondrial genetics, apocytochrome *b* 142
- molecular genetics, genomes 2466
- mycorrhizas 2481
- *Oulema*, reviews 4749
- *Oulema melanopus* 4749
- pathogens 7795
- pleiotropy
  - milling quality 5849
  - salinity 5849
- polymerase chain reaction 6744
- polymorphism, alcohol dehydrogenase 8899
- prolamins 7754
- random amplified polymorphic DNA 6744
- regenerative ability 11338
- restriction fragment length polymorphism 7726
  - genomes 1286, 1320
  - taxonomy 12550
- *Schizaphis graminum* 4750
- seeds 7754
- sexual reproduction 2477
- taxonomy 7712, 7781
- *Tilletia indica* 248
- variety classification 2494
- water balance 7758
- yield components 7758

Triticum aestivum
- abscisic acid 2485, 9960, 11322, 12514
- air pollution 10124
- *Alternaria alternata* 7805
- *Alternaria triticina* 3653
- aluminium 236, 2515-2516, 3651, 4722-4723, 4739, 6763, 7789, 10064, 10123, 11353, 11356, 12558
- α-amylase 160, 4697, 12521-12522
- β-amylase 4697
- amylases 2431
- anatomy 210
- aneuploidy 199-200, 12497
  - height 5875
- anther culture 220, 224, 1308-1310, 2429, 2448, 2469, 2471, 2502, 3577, 4692, 4733, 5878-5880, 7769, 8897, 8904, 8906, 10086-10087, 10112-10113, 11333, 11338, 12473, 12494
- anthers 11317
- antioxidants 4699
- artificial selection 169, 2252, 2450, 3583-3584, 3614, 11294
  - aluminium 2519
  - barley yellow dwarf luteovirus 8941
  - biomass 3621
  - cold resistance 12557, 12560
  - cytoplasmic male sterility 12500
  - desiccation 5890
  - development 11331
  - drought resistance 235, 1327, 3649, 5890, 8918
  - *Fusarium culmorum* 6772, 12564
  - germination 12560
  - *Gibberella* 4666
  - *Gibberella zeae* 8920
  - growth period 11331
  - habit 7765
  - inflorescences 6750
  - *Leptosphaeria nodorum* 12564
  - proline 12557
  - *Puccinia recondita* 8934, 12501
  - quality 1313, 2505, 3634, 11342

Triticum aestivum *cont.*
  artificial selection *cont.*
    soil pH 2519
    sprouting 12516-12518
    toxic substances 2519
    waxes 7764
    yield components 1327, 3621, 4666, 5850, 10106, 11331
    yields 210, 6750
  aspartate aminotransferase 6788
  Aspergillus alutaceus 12569
  aster yellows 2567
  Avena sterilis 8947
  awns 11330
  backcrossing 1262
    height 212
    yield components 212
  barley mild mosaic bymovirus 7819
  barley yellow dwarf luteovirus 165, 1334, 2442, 7716, 7818
  barley yellow mosaic bymovirus 7819
  betaine 2518
  biomass 4655-4656
    history 2479
  1,4-bisdiazoacetylbutane 10084
  boron 10121
  breeding 1256-1264, 2252, 2421, 2445, 2447, 2450, 2462, 3586, 4665, 5863, 7742, 11279, 11293, 11295, 11297, 12467, 12482
    economics 3582, 8876, 12480
    history 1300, 5851, 5870, 6753, 11354, 12480
    reviews 10070
  calcium 2515
  canopy 8892
  carotenoids 4700
  catechol oxidase 12541
  cell culture 3627
  Cephus pygmeus 11367
  chlormequat 5886, 8898
  chlorophyll 4700, 4732, 6732
  chloroplast genetics 3594, 7695, 10081
  chromatin 3611
  chromosome aberrations 200
  chromosome addition 160, 1281, 1383, 2465, 2572, 8939, 10141, 12606
    amylase inhibitors 12524
    cytoplasmic male sterility 3612
    flooding 3888
    lysine 8994
    nutrients 12477
    proteins 8994
    Pseudocercosporella herpotrichoides 2532
    Puccinia graminis 8940, 12583
    Puccinia recondita 8940, 12583
    secalins 6867
  chromosome banding 198, 2467, 2476, 2572, 3605, 12496
  chromosome breakage 2464
  chromosome elimination 2465, 7740
  chromosome morphology 2465, 6748
  chromosome pairing 201, 1283, 7806, 10098, 11315
  chromosome substitution 198, 238, 1281, 2472, 2475, 10113, 11352
    α-amylase 10103
    drought resistance 4725
    hybridization 12491
    nutrients 12477
    photosynthesis 7751
    polyamines 3643
    soil pH 4725
    stress 3643
  chromosome translocation 193, 201, 1281, 1284-1285, 3602, 3604, 3608, 4690, 6749, 7035, 7750, 11315, 12501
    aluminium 8886
    barley yellow dwarf luteovirus 3889
    cytoplasmic male sterility 12502
    Erysiphe graminis 8925
    fertility 8889
    Mayetiola destructor 1336, 11343
    Puccinia graminis 8940
    Puccinia recondita 8940
    quality 8886, 11343
    reviews 195
    Schizaphis graminum 8944
    secalins 159

Triticum aestivum *cont.*
  chromosome translocation *cont.*
    toxic substances 8886
    yield components 12495
  chromosome transmission 3625
  Claviceps purpurea 10066
  climate 217
  Cochliobolus sativus 4660, 7715, 7797
  cold resistance 1254, 1303, 5888, 6736, 6767, 10125, 10130, 11278, 11290-11291, 11347-11348, 11354, 12556
  colour 1295, 2482
  combining ability
    abscisic acid 11346
    anther culture 222
    boron 2512
    development 11329
    drought resistance 11346
    Erysiphe graminis 11363
    Gibberella zeae 2524
    growth regulators 11346
    nutrients 2512
    photoperiodism 205
    proteins 10116
    Puccinia recondita 251
    quality 10116
    seeds 11329
    sprouting 12516
    temperature 205
    Tilletia indica 249, 8927
    tissue culture 4707
    yield components 205, 219, 4707, 10109-10110, 10121, 11323, 11332, 11346
    yields 10116
  competitive ability 1251, 2422, 2514, 5886, 5900, 8915
  computer programming 6767
  copper 10122, 12558
  Corcyra cephalonica 10153
  crop density 2514, 12554
  crop mixtures
    Hordeum vulgare 5886
    Populus 1321
    Sinapis alba 5886
  crossing over 6746
  cytoplasmic male sterility 1284, 10059, 12501
  2,4-D 3666
  deletions 12496
  Delia coarctata 6809
  Deroceras reticulatum 261
  desiccation 235, 12525
  development 213, 2489, 5845, 11319, 11328
  DIMBOA 260, 2570
  diseases 254, 2429, 5893, 6770-6771, 8924, 11360, 12572
  Diuraphis noxia 8945, 10149
  DNA 4691
  DNA hybridization 10078
  dormancy 2485, 12525
  drought resistance 164, 237, 240, 1329, 2499, 2518, 3641-3642, 3648, 4665, 4721, 4728, 5889, 8917, 9960, 10126, 10128, 12559
  electrical properties 6736, 11278
  embryo culture 225, 5881, 7740, 7770, 11334, 11336
  embryology 4692
  endosperm 206, 3611, 4691
  environment 11294
  Ephestia kuehniella 11368
  epistasis
    glutenins 7775
    quality 7775
  Erysiphe graminis 240-241, 289, 1333, 2440, 2535, 2544-2546, 2561, 3656-3657, 6737-6738, 10133, 11358, 12571
  esterases 1302
  ethidium bromide 1288
  ethyl methanesulfonate 1288-1289, 2485, 3576, 6731, 11313
  ethylene 2545
  ethyleneimine 10084
  N-ethyl-*N*-nitrosourea 10084-10085
  experimental design 1251, 2422, 2444, 4668
    Puccinia striiformis 3662
  farm inputs 12552

Triticum aestivum *cont.*
  fenridazon-potassium 204
  flooding 10129, 11350
  forage 6058-6059
  fungi 2526, 4744, 7714, 11360
  fungicides 12479
  Fusarium 2437, 2539, 2542, 3581, 10133, 12563
  Fusarium culmorum 243-244, 2525, 2530, 2537, 2543, 2625, 6782, 6785, 11359, 12566
  Fusarium roseum 2625
  gametocides 204, 1280, 3595, 12499
  gametoclonal variation 3610
  gamma radiation 3576, 3599, 3604, 5863, 6731-6732, 8888, 8894-8895, 11313, 12485
  gene banks 152, 5852
  gene dosage
    colour 12509
    endosperm 4716
    seeds 4716
    sprouting 12509
  gene expression 156, 3573, 7738, 10060
    abscisic acid 155, 3593, 8641
    adenosinetriphosphatase 2060, 10088
    S-adenosyl-L-homocysteine hydrolase 11355
    aluminium 3646, 11355
    α-amylase 155, 8900
    chlorophyll *a/b* binding protein 5858
    cold 187
    cold resistance 8919
    cysteine synthase 2458
    dormancy 12523
    endosperm 2483, 8900
    enzymes 1247
    gibberellins 155
    glutenins 5860, 7778
    growth regulators 155, 3593
    heat shock 11355
    heat shock proteins 2457, 11413
    histones 188, 1276, 7737, 11355
    light 187
    meiosis 7748
    metallothionein 186
    nucleolus organizer 3592
    photosynthesis 5868
    plant embryos 3593
    proteins 2483
    puroindolines 8882
    salinity 2523
    sprouting 12523
    toxic substances 3646
    trypsin inhibitors 2427
  gene location
    abscisic acid 12520
    aluminium 10065
    α-amylase 11326
    chlorophyll *a/b* binding protein 11311
    chromosome pairing 1282
    compatibility 12491
    cytoplasmic male sterility 12502
    deoxyribonuclease 7767
    Diuraphis noxia 10152
    dormancy 12520
    drought resistance 238, 11352
    endosperm 2483
    esterases 12535
    glucose-1-phosphate adenylyltransferase 185
    growth regulators 12520
    gynoecium 203
    height 10099
    Mayetiola destructor 11369
    phosphoenolpyruvate carboxylase 11311
    photosynthesis 2430
    phytochrome 11311
    proteins 2483
    Puccinia graminis 12583
    Puccinia recondita 2562, 12501, 12583
    ribulose-bisphosphate carboxylase 11311
    salinity 8081
    spikelets 11325
    Tilletia indica 6773
    tissue culture, reviews 221
    toxic substances 10065
    Ustilago segetum 2549

***Triticum aestivum** cont.*

- gene location *cont.*
  - vernalization 2484
- gene mapping 181, 3572, 5841, 6813, 7035, 7692, 7698-7703, 7725, 7729, 7733-7734, 7739, 7811, 12496
  - abscisic acid 7031
  - chromosome pairing 1282
  - colour 12534
  - databases 7735
  - dormancy 12534
  - gliadin 7730
  - *Puccinia recondita* 7812
  - restriction fragment length polymorphism 3591
  - seeds 12534
  - *Tilletia indica* 6773
- genetic distance 169, 6747, 10078, 12490
  - soil pH 2520
- genetic engineering 2252, 12478
  - abscisic acid 8641
  - adenosinetriphosphatase 2060, 10088
  - chlorophyll *a/b* binding protein 5858
  - cysteine synthase 2458
  - histones 1276
  - stress 7792
- genetic markers
  - cold resistance 11344
  - genomes 1315
  - gliadin 209, 1314-1315, 11344
  - glutenins 209, 11344, 12548
  - isoenzymes, reviews 145
  - *Pseudocercosporella herpotrichoides* 2534
  - *Puccinia graminis* 11344
  - quality 1314, 11344, 12548
  - secalins 6867
- genetic resources 167, 5852-5853, 7718, 7720, 7741, 8874, 11295, 11317, 12467, 12504
- genetic transformation 156, 183, 2424, 2456, 2501, 4676, 4678, 5862, 6742, 7706, 7738, 10060-10061, 12488
  - amino acids 4735
  - amylase inhibitors 12524
  - bilanafos 265
  - *Erysiphe graminis* 4735
  - glufosinate 264-265, 4681, 5899
  - herbicides 264-265, 4681, 5899
  - inflorescences 11310
  - phosphinothricin acetyltransferase 5899
  - pollen 1230
  - spikelets 11310
  - trypsin inhibitors 2427
- genetic variance
  - anther culture 222
  - catalase 4701
  - competitive ability 4720
  - dormancy 12526
  - *Erysiphe graminis* 11363
  - nutrients 3637
  - peroxidases 4701
  - physiology 3624
  - potassium 3637
  - stress 7792
  - superoxide dismutase 4701
  - temperature 12526
  - *Tilletia indica* 249
  - transpiration 12537
  - *Typhula ishikariensis* 12565
  - yield components 1307, 3624, 6758, 10107, 10109-10110
- genetic variation, isoenzymes 2488
- genetics 7743, 8939, 11312
  - aluminium 3644-3645
  - amylose 3633
  - awns 8897
  - barley yellow dwarf luteovirus 4729
  - boron 2513
  - chromosome pairing 2474, 3603, 3609, 7752
  - cold resistance 8875
  - colour 10096, 12534
  - cytoplasmic male sterility 3612, 12500
  - *Diuraphis noxia* 3664, 10151-10152
  - dormancy 12508, 12510, 12534
  - dry matter 2487
  - endosperm 1297, 4716

***Triticum aestivum** cont.*

- genetics *cont.*
  - *Erysiphe graminis* 247, 1257, 4736-4738, 6779, 8926, 10136-10137, 11362
  - esterases 12535
  - flowering 1238
  - *Gibberella zeae* 2524
  - gibberellic acid 207
  - gibberellins 8900
  - gliadin 2493, 4690, 4712, 7773
  - glumes 10096
  - glutenins 226, 233, 1319, 2493, 2508, 2654, 3632
  - growth regulators 207
  - heat 12510
  - height 207, 1292, 2487, 2490, 3618, 4703, 5874-5875, 8898, 8900-8901, 10101, 11323, 12507, 12530, 12532
  - *Heterodera avenae* 4746
  - hybrid necrosis 12579
  - hybridization 12491
  - inflorescences 10100
  - intergeneric hybridization 3596
  - male sterility 1289
  - *Mayetiola destructor* 8946, 11369
  - nutrients 2513
  - photoperiodism 8875, 10101
  - plant disorders 11327
  - plant hairs 10096
  - proteins 1297, 3633
  - *Puccinia graminis* 1257, 4739-4740, 6770, 6779, 10143, 11364
  - *Puccinia recondita* 253-254, 256-258, 1257, 2560-2563, 3660, 4729, 4739-4740, 4743, 5897-5898, 6770, 6779, 6788, 6792, 6797, 6802, 7813, 8932, 8934, 8936, 10143-10144, 10146-10147, 11364-11365, 12572, 12574, 12576-12577
  - *Puccinia striiformis* 2558, 4729, 5895, 6779, 6790, 6798, 8930, 8933, 10143
  - quality 233, 1319, 2490, 2654
  - salinity 6769
  - *Schizaphis graminum* 8944
  - seeds 4716, 12508, 12534
  - spring and winter habit 2491, 10097
  - sprouting 12508
  - *Tilletia* 1257
  - *Tilletia laevis* 8928
  - *Tilletia tritici* 8928
  - tissue culture, reviews 221
  - toxic substances 3644-3645
  - *Ustilago segetum* 2549, 6787
  - vernalization 10105
  - waxes 10096
  - yield components 2490, 8901, 10101
- genomes 7693
- genotype environment interaction 3583-3584, 3638, 4718, 7783, 8779
  - drought resistance 1327, 6765
  - nutrients 2510
  - plant composition 1249
  - potassium 2510
  - quality 3631, 11342
  - quantitative traits 10120
  - seed production 2478
  - statistics 8914, 12551, 12553
  - *Tilletia laevis* 7808
  - *Tilletia tritici* 7808
  - yield components 1303, 1327, 6645, 8872, 10122, 12553
  - yields 3631
- genotype mixtures 1251
  - quality 7782
  - yields 7782
- germination 2521, 4697, 11266, 12514
- germplasm releases 168, 241, 3585, 8939, 11296, 11299, 12482
  - aluminium 3647
  - awns 214
  - *Cephus cinctus* 11371
  - *Diuraphis noxia* 11370
  - *Erysiphe graminis* 10131
  - growth period 10068
  - height 12506
  - *Mayetiola destructor* 8946

***Triticum aestivum** cont.*

- germplasm releases *cont.*
  - *Pseudocercosporella herpotrichoides* 3654
  - *Puccinia recondita* 10142
  - quality 3630
  - *Schizaphis graminum* 3665
  - soil toxicity 3647
  - wheat soilborne mosaic furovirus 10131
  - wheat spindle streak mosaic bymovirus 10131
- *Gibberella* 3581
- *Gibberella acuminata* 2530
- *Gibberella avenacea* 12566
- *Gibberella fujikuroi* 12567
- *Gibberella zeae* 243-245, 1331, 2525, 2530, 2537-2538, 2540-2541, 2543, 2625, 4660, 4730, 6774, 6782, 6785, 11359, 12566
- gibberellic acid 3618, 12507, 12521
- gliadin 206, 229, 1294, 7757, 12540, 12542
- glucose-6-phosphate isomerase 6749
- gluten 1317, 2506, 4711, 6760, 10114, 11339
- glutenins 230, 1318, 2503, 8908, 12546
- growth period 217, 245, 2498, 3617, 4669, 4673, 4690, 8911, 10090, 10095, 11328, 12504
- growth regulators 3618, 5886, 8898, 9960, 11322, 11345, 12507, 12514, 12521
- habit 6752, 8890
- haploidy 196, 1310, 2429, 2469-2471, 3577, 3607, 3610, 4687, 4690, 5879-5881, 7710, 7740, 8897, 8906, 10086-10087, 11337, 12494, 12501, 12512, 12533
  - *Gibberella zeae* 4733
- harvest index 5885
- heat resistance 164, 211, 2517, 11351
- height 1262, 1303, 3616, 4690, 8915, 10095, 12504, 12521
- *Helminthosporium* 3653
- herbicides 3666, 7820-7821, 12581
- heritability
  - aluminium 3650
  - biomass 3621
  - development 11329, 11331
  - *Erysiphe graminis* 8926, 10137
  - *Fusarium culmorum* 6772
  - growth period 11331
  - height 3650
  - nutrients 3637
  - potassium 3637
  - quality 3634, 10069
  - seeds 11329
  - sprouting 7762
  - toxic substances 3650
  - transpiration 12537
  - *Typhula ishikariensis* 12565
  - yield components 3621, 4705-4706, 6757-6758, 7765, 10069, 10106, 10108, 10110, 11331
- heterosis 1263, 6747
  - carotenoids 4701
  - chlorophyll 4701
  - harvest index 2459
  - seeds 11327
  - weight 11327
  - yield components 218, 1305-1306, 2517, 4683, 6757, 7747, 10104, 12531
  - yields 2459, 7746
- *Hordeum vulgare*, genetics, salinity 2435
- hybrid seed production 3595, 5862
- hybrid varieties 1280
- hydroxamic acids 260
- hydroxybenzyladenosine 11322
- ideotypes 3615
- *in vitro* culture 2501, 3628, 3648, 12482
- *in vitro* selection
  - aluminium 3647
  - *Cochliobolus sativus* 223, 2531, 11335
  - cold resistance 1330
  - *Fusarium* 12463
  - *Fusarium culmorum* 4731
  - *Gibberella zeae* 1332, 2531, 4731
  - roots 8893

- ***Triticum aestivum*** *cont.*
  - *in vitro* selection *cont.*
    - soil toxicity 3647
  - inbreeding 4705
  - induced mutations 2462-2463, 3599, 5863, 5865, 8875, 10084-10085, 11313
    - chlorophyll 3576, 6731
    - enzymes 8895
    - *Gibberella zeae* 1332
    - growth period 12485
    - inflorescences 4684, 4697, 10098
    - male sterility 1288-1289
    - seedlings 8895
    - seeds 8895
    - yield components 4684, 5872, 8894
  - inhibitor genes
    - colour 10096
    - glumes 10096
    - plant hairs 10096
    - waxes 10096
  - insects 5893, 12580
  - intergeneric hybridization 3598, 7707
  - interspecific hybridization 201, 2462, 2474, 4685, 5895, 7707, 7749, 7756, 7796, 7798, 7806, 7812, 7816, 7818, 8885, 10059, 10097, 10104, 10115, 10133, 11327, 11358, 12493
  - iron 8913
  - isoenzymes 1287, 1302, 6788
  - isoproturon 3666
  - lasers 12485
  - leaves 4721, 6752, 8890, 12505
  - *Leptosphaeria avenaria* 6778
  - *Leptosphaeria nodorum* 2527, 4732, 4734, 6775, 6778, 6781, 6786, 6874, 7799, 8921, 10133
  - linkage 6746, 7700-7701, 7739
    - chromosome substitution 7749
    - colour 12509
    - endopeptidases 5896
    - gliadin 4690
    - *Puccinia recondita* 5896
    - quality 5849
    - salinity 5849
    - sprouting 12509
  - lipids 10114, 12556
  - lodging 10102
  - low input agriculture 1252
  - male sterility 240, 3613, 12499
  - manganese 11349, 12477
  - *Mayetiola destructor* 6803-6804, 6806-6808, 6810
  - mechanical damage 4696, 4724
  - meiosis 202, 10098
  - *Melanoplus sanguinipes* 4747
  - *N*-methyl-*N*-nitrosourea 8875
  - *Metopolophium dirhodum* 1335
  - metoxuron 3666
  - mitochondrial genetics 1245, 2455, 3594, 5857, 6745, 7695, 9996, 10059
    - cytoplasmic male sterility 7756, 10088
    - NADH dehydrogenase 10079
    - NADH dehydrogenase (ubiquinone) 3590, 10080
  - moisture content 1301, 4696
  - molecular genetics 182, 184, 1383, 2464, 3573, 3605, 7727, 7732, 7736, 7824, 8881, 11297
    - abscisic acid 12520
    - aluminium 3646
    - cold 187
    - cold resistance 8919
    - DNA primase 10082
    - dormancy 12520
    - glucose-1-phosphate adenylyltransferase 185
    - glutenins 1277-1278, 3636, 5860
    - growth regulators 12520
    - heat shock proteins 2457
    - heterosis 2428
    - light 187
    - nucleolus organizer 3592
    - nutritive value 1250
    - photosynthesis 2430
    - proteins 1250
    - quality 7711
    - stress 7792
    - toxic substances 3646
- ***Triticum aestivum*** *cont.*
  - *Monographella nivalis* 2438, 11291, 11412
  - monophenol monooxygenase 12541
  - morphology 8942
  - multivariate analysis
    - quality 4714
    - yield components 1304, 3622-3623, 6756, 7718, 10077
  - mutagens 1288-1289, 2463, 2485, 3576, 6731, 8875, 10084-10085, 10098, 11313, 12485
  - mutations
    - abscisic acid 12523
    - chlorophyll 7709
    - chromosome pairing 196, 2474
    - dormancy 12523
    - endosperm 1297, 2483
    - gliadin 4712
    - growth regulators 144, 12523
    - proteins 1297, 2483
    - sprouting 12523
  - mycoplasma-like organisms 2567
  - mycorrhizas 8903
  - *Mycosphaerella graminicola* 2527, 3652, 6777, 6780, 7798-7799, 7801, 8922-8923
  - mycotoxins 2530, 12566
  - natural selection, pollen 12503
  - neutron radiation 11313, 12485
  - nitrate reductase 1296, 5869
  - nitrogen 234, 1323, 2480, 4694, 5883, 5885, 10091, 10102, 10118, 10127, 11345, 12554-12555
  - nitroso compounds 2463
  - nucleocytoplasmic interaction 8884, 10059
    - haploidy 1284, 2468
    - height 10099
    - seeds 1299
    - spring and winter habit 10097
  - nucleolus 5843
  - nucleotide sequences 5856, 7035, 11309
    - acetyl-CoA carboxylase 4680
    - heat shock proteins 4679
    - meiosis 7748
    - NADH dehydrogenase (ubiquinone) 10080
    - proteins 3593
    - puroindolines 8882
  - nutrients 234, 1322-1323, 2515, 3621, 3639, 4694, 5883-5885, 8913, 10091, 10102, 10118-10119, 10121-10122, 10127, 11345, 12477, 12554-12555
  - outcrossing 11317
  - ovule culture 225, 11337
  - ozone 2529
  - parthenocarpy 3613
  - peroxidases 1302, 6788
  - photoperiodism 161, 2489, 2492, 3617, 10093, 11283, 11320, 12505
  - photosynthesis 1296, 2497, 3642, 4694, 5900, 8892, 11348
  - physiological leaf spot 2568
  - plant disorders 2568
  - plant introduction 3587
  - pleiotropy
    - α-amylase 12527
    - awns 12529
    - colour 12534
    - dormancy 12534
    - gibberellic acid 12527
    - glutenins 12533
    - growth regulators 12527
    - height 1291, 8901, 10101, 12527, 12530, 12533
    - photoperiodism 10101
    - *Puccinia graminis* 255
    - quality 5849
    - salinity 5849
    - seeds 12534
    - source sink relations 1291
    - yield components 8901, 10101, 12533
  - pollen 1290
  - pollen germination 5867
  - pollination 4693, 11317
  - polymerase chain reaction 3589, 7824
    - glutenins 1277, 8883, 12548
    - quality 12548
    - secalins 6867
- ***Triticum aestivum*** *cont.*
  - polymorphism, gliadin 2507, 7773
  - polyploidy 4691, 11333
  - precipitation 8992
  - prolamins 2432
  - proline 1329, 2518, 8917
  - proteins 1301, 2480, 2504, 4711, 8911, 10091, 11339-11340
  - protoplasts 3627, 7706
  - *Puccinia* 241, 12571
  - *Puccinia graminis* 2441, 2556, 2561, 3658, 4662, 4741, 6793, 6799-6800, 7798, 7815-7817
  - *Puccinia persistens* 2555
  - *Puccinia recondita* 252, 259, 2462, 2528, 2550-2551, 2554, 2557, 3653, 3661, 4661, 4745, 6795, 6799, 7798, 7814, 7816, 8937-8939, 10133, 10141, 11358
  - *Puccinia striiformis* 240, 250, 2528, 2544, 2553, 2561, 3659, 4742, 6738, 6789, 6791, 6796, 6799, 7798, 7816, 8935, 10141, 10145, 11358
  - *Pyrenophora tritici-repentis* 2529, 6784, 7799, 12568
  - quality 163, 227-228, 230, 1264, 1296, 1317-1318, 2503-2504, 2506, 4660, 4690, 4711, 5891, 6741, 6760, 7779-7780, 8908-8911, 10063, 10117, 11339-11341, 11358, 11368, 12476, 12484, 12544-12546, 12549, 12561
  - quinclorac 7821
  - radiation 11313
  - random amplified polymorphic DNA 2472, 4677, 5859, 7725, 7731
    - *Puccinia recondita* 7812
  - reciprocal effects
    - anther culture 2500
    - *Puccinia striiformis* 6794
  - recombination 6746
    - chromosome substitution 7749
    - mitochondrial genetics 6743
  - regenerative ability 11338
  - respiration 2516
  - restriction fragment length polymorphism 1318, 5841, 6745, 6813, 7693, 7695, 7697, 7725-7726, 7729, 8881, 12489-12490
    - chlorophyll *a*/*b* binding protein 11311
    - *Erysiphe graminis* 2547
    - glutenins 8883
    - *Heterodera avenae* 7793
    - phosphoenolpyruvate carboxylase 11311
    - phytochrome 11311
    - *Puccinia recondita* 7812
    - ribulose-bisphosphate carboxylase 11311
    - sprouting 7762, 12519
  - *Rhopalosiphum padi* 260, 1335
  - *Rhyzopertha dominica* 6811
  - roots 208, 7789, 8945, 10119
  - salinity 239, 1255, 4658, 4726, 5891-5892, 6764, 10127, 11301, 12558
  - *Schizaphis graminum* 2569, 6812, 8943, 10067
  - seed aging 11266
  - seed moisture 4724
  - seed testing 2432
  - seeds 213, 1295, 2482, 4691, 4699, 4724, 12504, 12521
    - storage 11314
  - selective fertilization 4690
  - *Septoria* 6738, 12571
  - *Sesamia inferens* 262
  - shade 10092
  - shoots 8945
  - *Sipha flava* 8943
  - *Sitobion avenae* 1335, 2570, 10150
  - *Sitodiplosis mosellana* 8942
  - *Sitophilus granarius* 11368
  - *Sitophilus zeamais* 4748
  - sodium azide 3576
  - soil-borne wheat mosaic furovirus 2564-2565, 11366
  - soil pH 2522, 3651, 6762, 6764, 10064, 11350, 11353, 12561
  - soil toxicity 10064, 11356
  - soil water 10119

***Triticum aestivum** cont.*
  somaclonal variation 1309
    gliadin 2509, 7774
    glutenins 7774
    mitochondrial genetics 6743
    photorespiration 12536
    quality 10073
    ribulose-bisphosphate carboxylase 12536
    yield components 8894, 10111
  source sink relations 1298, 4695, 6753
  sowing date 4669, 4673, 5872, 5882, 5887, 6758, 8912
  sprouting 2495, 6751, 8902, 10089, 11318, 11321, 11341, 12512-12515, 12525, 12528
    mathematics 12511
  stability 1252, 3639, 5848
    proteins 4719
    salinity 7788
    shade 7787
    soil pH 7788
    statistics 4546
    yield components 4719
    yields 4717, 10071
  statistics 6767
  sterility 202
  stomata 211, 2486, 2499
  stress 12558
  substitution lines 12491
  sugars 12556
  sulfur dioxide 10124
  superoxide dismutase 6774
  temperature 202, 2521, 3617, 4745, 6758, 7785, 10093, 11320, 12513
  tillage 4718
  tillering 2514, 10094, 11320
  Tilletia 3657
  Tilletia indica 2528, 8929, 10139, 10141
  Tilletia laevis 2439, 7809
  Tilletia tritici 2439, 7809
  tissue culture 200, 223, 2252, 3567, 5879, 6745, 7710, 8888, 11266, 11333, 11335
  toxic substances 236, 2515-2516, 2537, 3651, 4722-4723, 4739, 6763, 10123, 11349, 11353, 12558
  transgression 1263
  translocation 1298
  Tribolium confusum 11368
  Triticum compactum
    Triticum vavilovii
      gene banks 7772
      glutenins 7772
  Triticum spelta
    Triticum vavilovii
      gene banks 7772
      glutenins 7772
  Triticum sphaerococcum
    Triticum vavilovii
      gene banks 7772
      glutenins 7772
  Typhula ishikariensis 10134
  Urocystis agropyri 7800, 7804
  Ustilago segetum 2528, 3653, 7807
  variety classification 145, 206, 1294, 2432, 2493, 7757
  variety trials 153, 1266, 2451, 4669-4671, 4673, 5726, 5831, 5855, 6740-6741, 7721, 8779, 8867, 10071, 11298, 12483
    statistics 2444, 5854
  vascular system 210
  vernalization 2489, 10093, 12528
  Veronica hederifolia 5900
  vomitoxin 2537, 6785
  water balance 2499, 3619, 4721, 7759, 11347
  waterlogging 1326
  waxes 11318
  weeds 5900
  wheat yellow mosaic bymovirus 11366
  wide hybridization 7750
  Xanthomonas campestris 7794, 10132
  yield components 1300, 1323, 2470, 4704, 6753, 7798, 8915, 11328, 12538
    history 5870
  yield correlations 215-217, 1296, 1298, 3641, 4668, 4706, 5874, 5877, 6755, 7785, 10077, 10108, 12538

***Triticum aestivum** cont.*
  yields 2514
  zinc 1322, 8913
  varieties 134, 153, 1258, 4672, 8862, 11304, 11308, 12486
    AC Minto 7723
    AC Reed 175, 2453
    AC Ron 179
    AC Taber 180, 8877
    Ai Mai-58 171
    Belotserkovskaya-7 2412
    Belotserkovskaya Intensivnaya 2412
    Bluesky 11302
    Buchanan 173
    CDC Teal 177
    Chuan Yu-11 8879
    Chuan Yu-12 8879
    Erythrospermum-21 2412
    Excel 1270
    Fairview 174
    Fundulea 178
    GA-Gore 176
    Galaxie 11306
    Garland 1272
    Gene 11300
    GR860 1268
    GR863 1267
    GR876 1269
    He Sheng-2 10073
    Hoff 8878
    IAC287 Yaco 4675
    Ke Han-13 10072
    Khyber-87 1273
    L'govskaya-110 2412
    Lona 11307
    Lu Mai-15 172
    Lu Mai-20 12485
    Meridian 3588
    Ninchun-16 10077
    Ningchun-16 2454
    Norin-10 1275
    Nujing 10089
    Otrada Severa 8875
    Pasqua 7724
    Ping Dong-29 11301
    Ping Liang-38 10074
    Pirsabak-85 1274
    Shaan You-225 12484
    Tamaro 11305
    Trigo BR38 4674
    Vista 10075
    Wildcat 10076
    Yan Nong-15 170
    Yang Mai-158 11303
    Zavitz 1271
    Zhong Tu-1 8880
    Zhong Tu-2 8880
    Zhong Tu-3 8880
Triticum araraticum
  genetics
    chlorosis 8916
    hybrid chlorosis 3663
    hybrid necrosis 3663
  interspecific hybridization 8885
Triticum boeoticum
  genetic resources 7777
  genetics, *Puccinia recondita* 6801
  gliadin 7777
  glutenins 7777
  interspecific hybridization 6801
  isoenzymes 7760
  Mycosphaerella graminicola 7803
  Puccinia recondita 7803
  Puccinia striiformis 7803
  random amplified polymorphic DNA 5859
  Tilletia laevis 7803
***Triticum carthlicum**,* drought resistance 7790
Triticum compactum
  gene banks 152
  Triticum aestivum
    Triticum vavilovii
      gene banks 7772
      glutenins 7772
Triticum dicoccoides
  anther culture 4710
  genetic resources 7689, 7717, 8769
  genetics
    chlorosis 8916
    hybrid chlorosis 3663

***Triticum dicoccoides** cont.*
  genetics *cont.*
    hybrid necrosis 3663
    Puccinia graminis 12573
    Puccinia recondita 12573, 12577
  interspecific hybridization 10115, 12573
  Mycosphaerella graminicola 7803
  nucleocytoplasmic interaction 8884
  polymerase chain reaction
    gliadin 7728
    glutenins 7728
  Puccinia graminis 5894
  Puccinia recondita 5894, 7803
  Puccinia striiformis 5894, 7803
  random amplified polymorphic DNA 7731
  restriction fragment length polymorphism
    gliadin 7728
    glutenins 7728
  Tilletia laevis 7803
Triticum dicoccum
  drought resistance 7790
  gene location, α-amylase 11326
  genetic resources 7776
  genetics
    Erysiphe graminis 6783
    male sterility 3698
  germination 2521
  gliadin 7776
  heat resistance 211
  interspecific hybridization 6783, 10097
  seasonal growth 7761
  seeds 7761
  stomata 211
  temperature 2521
Triticum duromedium
  genomes 10083
  taxonomy 10083
Triticum durum
  air pollution 10124
  aluminium 3651, 10064, 11356
  aneuploidy 3606, 7753
  anther culture 5878, 11338
  artificial selection
    gliadin 3629
    gluten 3629
    quality 3629
    stability 4657
    waxes 7764
  barley mild mosaic bymovirus 2566
  barley yellow dwarf luteovirus 10148
  breeding 1265
    economics 12480
    history 12480
    reports 136
  catechol oxidase 12541
  cell culture 3627
  chlorophyll 5873
  chloroplast genetics 7695
  chromosome addition
    Puccinia graminis 12583
    Puccinia recondita 12583
  chromosome elimination 3600
  chromosome substitution
    photosynthesis 7751
    quality 12547
    yield components 12547
  chromosome translocation 4685, 6749, 7753
    haploidy 2473
  Claviceps purpurea 10066
  cold resistance 136, 5876, 7784
  colour 1295
  combining ability
    anther culture 8905
    carboxylases 8896
    proteins 8896
    ribulose-bisphosphate carboxylase 8896
  competitive ability 1251
  2,4-D 3666
  development 8891
  diseases 7802
  DNA 7670
  drought resistance 164, 1324, 1328, 2499, 6766, 7786
  experimental design 1251
  Fusarium 2539
  Gaeumannomyces graminis 2574
  gene banks 152

- ***Triticum durum*** *cont.*
  - gene location
    - α-amylase 11326
    - gliadin 4713
    - glutenins 4713
    - *Puccinia graminis* 12583
    - *Puccinia recondita* 12583
  - genetic markers
    - gliadin 1315, 6759
    - quality 1315, 6759
  - genetic resources 134, 3640, 4667, 5876, 7689, 7768, 8891
  - genetic variance
    - carboxylases 8896
    - proteins 8896
    - ribulose-bisphosphate carboxylase 8896
  - genetics
    - *Erysiphe graminis* 4738, 6783
    - gliadin 2493, 3635, 7773
    - glumes 4702
    - glutenins 2493, 3635
    - habit 7766
    - *Heterodera avenae* 4746
    - hybrid necrosis 12579
    - inflorescences 7766
    - male sterility 3698
    - *Puccinia recondita* 2552, 12577
    - quality 3635
    - salinity 6769
    - waxes 7763
  - genotype environment interaction, yield components 8872
  - genotype mixtures 1251
  - germination 2521
  - *Gibberella fujikuroi* 12567
  - gliadin 231, 8907
  - glucose-6-phosphate isomerase 6749
  - gluten 6760, 11339
  - glutenins 1312, 1318, 8907
  - growth period 2498
  - habit 6752
  - haploidy 3600
  - heat resistance 164, 211
  - height 136
  - herbicides 3666
  - heterosis
    - carboxylases 8896
    - proteins 8896
    - ribulose-bisphosphate carboxylase 8896
  - *in vitro* selection, drought resistance 12562
  - induced mutations, reviews 5864
  - interspecific hybridization 4685, 6783, 7796, 7798, 12573
  - isoproturon 3666
  - leaves 5876, 6752
  - linkage
    - gliadin 4713
    - glutenins 4713
  - metoxuron 3666
  - mitochondrial genetics 7695
  - monophenol monooxygenase 12541
  - multivariate analysis, yield components 3623
  - *Mycosphaerella graminicola* 3652, 6777, 7798
  - nucleocytoplasmic interaction 7753
    - haploidy 2473
  - photosynthesis 5873
  - plant embryos 7670
  - pleiotropy, glumes 4702
  - polymorphism, gliadin 7773
  - proteins 11339
  - protoplasts 3627
  - *Puccinia graminis* 7798
  - *Puccinia recondita* 6783, 7798, 8937
  - *Puccinia striiformis* 250, 7798
  - *Pyrenophora tritici-repentis* 10135
  - quality 163, 231-232, 1312, 1318, 4715, 6760, 10117, 11339
  - random amplified polymorphic DNA 7731
  - regenerative ability 11338
  - restriction fragment length polymorphism 1318, 7695
  - salinity 1325
  - seeds 1295
  - soil pH 3651, 10064
  - soil toxicity 10064, 11356
- ***Triticum durum*** *cont.*
  - somaclonal variation
    - drought resistance 12562
    - *Fusarium culmorum* 2533
    - *Gibberella zeae* 2533
  - stability 2511, 3640
    - quality 1311, 12543
    - yield components 6766
  - stomata 211, 2486, 2499
  - substitution lines
    - quality 12547
    - yield components 12547
  - sulfur dioxide 10124
  - temperature 2521
  - *Tilletia indica* 8929
  - *Tilletia laevis* 7809
  - *Tilletia tritici* 7809
  - toxic substances 3651
  - *Ustilago segetum* 7807
  - variety classification 2493, 7768
  - variety trials 153, 2452, 2511, 7722, 8891
  - water balance 1324, 2499
  - waterlogging 1326
  - yield components 7798
  - varieties, Waitohi 12487
- ***Triticum kotschyi***
  - drought resistance 3642
  - photosynthesis 3642
- ***Triticum macha,*** nucleocytoplasmic interaction 8884
- ***Triticum monococcum***
  - anther culture 2471
  - chromosome morphology 6748
  - chromosome pairing 201
  - chromosome translocation 201
  - gamma radiation 3620
  - genetic resources 7777
  - genetic transformation 2501
  - genetics, *Puccinia recondita* 6801
  - gliadin 7777
  - glutenins 7777
  - haploidy 2471
  - *in vitro* culture 2501
  - induced mutations
    - height 3620
    - spikelets 3620
  - interspecific hybridization 201, 6801, 7749, 7798
  - isoenzymes 7760
  - linkage, chromosome substitution 7749
  - *Mycosphaerella graminicola* 7798
  - nucleotide sequences, nitrate reductase 12469
  - *Puccinia graminis* 7798
  - *Puccinia recondita* 7714, 7798
  - *Puccinia striiformis* 7798
  - random amplified polymorphic DNA 5859
  - recombination, chromosome substitution 7749
  - seasonal growth 7761
  - seeds 7761
  - yield components 7798
- ***Triticum polonicum,*** drought resistance 7790
- ***Triticum spelta***
  - *Erysiphe graminis* 11358, 12570
  - gene banks 152, 2449
  - gene mapping, *Puccinia recondita* 7812
  - genetic distance 12490
  - genetics, *Puccinia recondita* 12575
  - heterosis, yield components 10104
  - *in vitro* culture 3628
  - interspecific hybridization 5895, 7812, 10104, 11358, 12493
  - *Puccinia recondita* 11358, 12570
  - *Puccinia striiformis* 11358
  - quality 11358
  - random amplified polymorphic DNA, *Puccinia recondita* 7812
  - restriction fragment length polymorphism 12490
    - *Puccinia recondita* 7812
  - *Triticum aestivum*
    - *Triticum vavilovii*
      - gene banks 7772
      - glutenins 7772
  - variety trials 153
- ***Triticum sphaerococcum***
  - genetics, *Erysiphe graminis* 247
- ***Triticum sphaerococcum*** *cont.*
  - *Triticum aestivum*
    - *Triticum vavilovii*
      - gene banks 7772
      - glutenins 7772
- ***Triticum* × *Thinopyrum,*** salinity 11650
- ***Triticum timococcum,*** chromosome substitution, α-amylase 10103
- ***Triticum timopheevii***
  - cell culture 4708
  - chromosome pairing 7806
  - chromosome substitution, α-amylase 10103
  - cytoplasmic male sterility 10059
  - drought resistance 7790
  - genetics, chlorosis 8916
  - interspecific hybridization 7756, 7806, 7816, 8885, 10059, 11327
  - mitochondrial genetics 10059
    - cytoplasmic male sterility 7756
  - nucleocytoplasmic interaction 10059
  - protoplasts 4708
  - *Puccinia graminis* 7816
  - *Puccinia recondita* 7816
  - *Puccinia striiformis* 7816
- ***Triticum turgidum***
  - anther culture 7771
  - artificial selection 12481
  - genetic variance, yield components 6754
  - genetic variation, isoenzymes 11324
  - genetics
    - colour 11324
    - seeds 11324
  - heritability, yield components 6754
  - ribulose-bisphosphate carboxylase 2496
  - stability, yield components 6761
- ***Triticum urartu***
  - genetic resources 7777
  - gliadin 7777
  - glutenins 7777
  - isoenzymes 7760
  - random amplified polymorphic DNA 5859
  - source sink relations 4695
- ***Triticum vavilovii***
  - *Triticum aestivum*
    - *Triticum compactum*
      - gene banks 7772
      - glutenins 7772
    - *Triticum spelta*
      - gene banks 7772
      - glutenins 7772
    - *Triticum sphaerococcum*
      - gene banks 7772
      - glutenins 7772
- ***Triticum* × *Aegilops,*** intergeneric hybridization 194, 1281, 1284, 1299, 2461, 2532, 2535, 2548, 2559, 2572, 3609, 4682, 4698, 4746, 5871, 6763, 7752-7753, 7784, 7796, 7810, 7826, 7830, 8939, 10078, 10096-10097, 10115, 10131, 10133, 10138, 10140, 11369, 12470, 12496, 12501, 12582-12583
- ***Triticum* × *Agropyron,*** intergeneric hybridization 170, 191, 1279, 12539, 12578
- ***Triticum* × *Agropyron* × *Secale,*** intergeneric hybridization 4654
- ***Triticum* × *Dasypyrum,*** intergeneric hybridization 189, 197, 2460, 2467, 12492
- ***Triticum* × *Elymus,*** intergeneric hybridization 170, 242, 1287, 1293, 2472, 2523, 3536, 3601, 3888, 4686, 4688-4689, 4727, 4926, 5861, 5866, 5892, 6748, 7755, 7796, 8873, 10083, 10133, 12498
- ***Triticum* × *Hordeum,*** intergeneric hybridization 158, 289, 2430, 2593, 3578, 3597, 3600, 5881, 6730, 6854, 7696, 8869, 8887
- ***Triticum* × *Leymus,*** intergeneric hybridization 1316
- ***Triticum* (×) *Lolium,*** protoplast fusion 192
- ***Triticum* × *Oryza,*** intergeneric hybridization 7704
- ***Triticum* × *Psathyrostachys,*** intergeneric hybridization 11316
- ***Triticum* × *Secale*** (*see also* Triticale)
- ***Triticum* × *Secale,*** intergeneric hybridization 170, 190, 198, 246, 293, 298-299, 1336, 2488, 2532, 3596, 3598, 3625, 3698, 3703, 8870, 8873, 8991, 8995, 11343, 11413, 12470, 12648

- ***Triticum* × *Taeniatherum*,** intergeneric hybridization 7745
- ***Triticum* × *Thinopyrum*,** intergeneric hybridization 1637, 11650
- ***Triticum* × *Tripsacum*,** intergeneric hybridization 3607
- ***Triticum* × triticale,** intergeneric hybridization 1389, 2475, 4725, 5842, 5941, 6872, 7716, 8868, 8886, 8994
- ***Triticum* × Triticeae,** intergeneric hybridization 7707
- ***Triticum* × *Zea***
  - chromosome elimination 3600, 7740
  - embryo culture 7740
  - gametoclonal variation 3610
  - haploidy 3600, 3610, 7740, 7744
  - intergeneric hybridization 3600, 3610, 7740, 7744
- ***Trogoderma granarium*,** *Pennisetum glaucum* 379
- ***Tropaeolum tuberosum***
  - proteins 1813
  - tubers 1813
  - variety classification 1813
- **Tropane alkaloids,** *Hyoscyamus muticus*, genetic variance 12288
- **Tropical fruits**
  - genetic resources 4168
  - plant introduction 3467
  - pollination 4170
  - self incompatibility 4170
- **Tropinone reductases**
  - *Datura stramonium*
    - gene expression
      - nucleotide sequences, tropinone reductases 11101
      - tropinone reductases, nucleotide sequences 11101
    - nucleotide sequences
      - nucleotide sequences, tropinone reductases 11101
      - tropinone reductases, nucleotide sequences 11101
  - *Hyoscyamus niger*, nucleotide sequences 8731
- **Tropisms**
  - *Arabidopsis thaliana*, mutations 70, 77, 147, 2357
  - *Lycopersicon esculentum*, mutations 147, 674
  - *Pisum sativum*, mutations 147
  - *Zea mays*, mutations 147
- **True seeds**
  - *Solanum*, tuberous species 9459
  - *Solanum tuberosum* 2944, 5098, 10578, 11817, 11820
- **Trypsin inhibitors**
  - *Acacia confusa*, nucleotide sequences 3349
  - *Brassica napus*, rape 8480
  - *Cajanus*, genotype environment interaction 12914
  - *Cajanus cajan*, genotype environment interaction 12914
  - *Cicer arietinum* 5065
  - *Erythrina caffra*
    - gene expression 13335
    - genetic engineering 13335-13336
    - mutations 13336
  - *Glycine max* 4974
  - *Hordeum spontaneum* 6833
  - *Hordeum vulgare* 6833
    - genetic engineering 2427
    - genetic transformation 2427
  - *Pisum abyssinicum*, genetics 5052
  - *Pisum sativum* 4973-4974, 4978, 5049-5050, 5053, 5055
    - gene location 5054
    - genetics 5052
    - linkage 5054
  - *Triticum aestivum*
    - gene expression 2427
    - genetic transformation 2427
  - *Vicia faba* 4973, 4978, 5008, 5011
- **Tryptophan**
  - *Arabidopsis thaliana*
    - gene expression 71
    - mutations 71, 8814
  - *Cicer arietinum* 6203
  - *Solanum tuberosum*, *in vitro* selection 8254
- **Tryptophan** *cont.*
  - *Zea mays*
    - artificial selection 10280
    - genetics 10280
- **Tryptophan decarboxylase**
  - *Catharanthus roseus*
    - gene expression 4470
    - genetic engineering 4470
    - nucleotide sequences 4470
  - *Nicotiana tabacum*
    - gene expression 4470
    - genetic transformation 4470
- **Tryptophan synthase β**
  - *Arabidopsis thaliana*
    - gene expression 58
    - genetic transformation 58
- ***Tsuga heterophylla***
  - clonal variation, height 9829
  - embryo culture 8655
  - genotype environment interaction, rooting capacity 3367
  - heritability
    - height 9829
    - rooting capacity 3367
  - rooting capacity 9829
- **Tubers**
  - *Manihot esculenta* 12951
  - *Oxalis tuberosa* 1813
  - *Solanum tuberosum* 4000, 5098, 5101, 9462, 10581-10583, 11816, 11818, 11822
    - gene expression 10575
    - genetics 1786
    - linkage 1786
    - molecular genetics 8247
    - somaclonal variation 10580
  - *Tropaeolum tuberosum* 1813
  - *Ullucus tuberosus* 1813
- **Tubulin**
  - *Arabidopsis thaliana*
    - gene expression 1153
    - genetic transformation 1153
    - molecular genetics 6673
  - *Avena sativa*, molecular genetics 5931
  - gene expression 10039
  - *Glycine max*
    - gene expression 7079
    - genetic engineering 7079
  - multiple genes 10039
  - *Nicotiana tabacum*
    - gene expression 3710, 7079
    - genetic transformation 3710, 7079
  - *Zea mays*
    - gene expression 3708, 3710, 3719
    - genetic engineering 3710
    - nucleotide sequences 3708, 3719
- **β-Tubulin**
  - *Zea mays*
    - gene expression 5954
    - nucleotide sequences 5954
- ***Tulipa***
  - breeding 6559
  - DNA 9883
  - forcing 11088
  - genetic resources 6559
  - genetic variation
    - esterases 13373
    - isoenzymes 13373
    - malate dehydrogenase 13373
  - polyploidy 9883
  - self incompatibility 11088
- ***Tulipa gesneriana***
  - esterases 4452
  - isoenzymes 4452
  - variety classification 4452
- **Turnip crinkle carmovirus,** *Arabidopsis thaliana*, molecular genetics 7661
- **Turnip mosaic potyvirus**
  - *Brassica*
    - genetics 12052
    - Chinese cabbages, genetics 3048
  - *Brassica napus*, rape 5378
  - *Brassica pekinensis* 9520
- **Twinning**
  - *Arachis hypogaea* 9688
  - *Oryza sativa* 1537
- ***Tylecodon aurusbergensis*,** taxonomy 11098
- ***Tylecodon buchholzianus*,** taxonomy 11098
- ***Tylophora indica*,** tissue culture 7544
- ***Typha latifolia*,** storage, pollen 137
- ***Typhula incarnata*,** *Hordeum vulgare* 6843, 10186
- ***Typhula ishikariensis***
  - cereals 7022
  - *Dactylis glomerata* 7021-7022
    - heritability 1626, 7021-7022
  - *Festuca pratensis* 7020
    - artificial selection 11619, 12782
  - grasses 7022
  - *Hordeum vulgare* 6843, 7022
  - *Lolium perenne* 7020
  - *Phleum pratense* 7020-7021
    - artificial selection 11619, 12782
  - *Trifolium pratense*, artificial selection 11619
  - *Triticum aestivum* 10134
    - genetic variance 12565
    - heritability 12565
- **Tyrosine decarboxylase,** *Petroselinum crispum*, molecular genetics 8740
- ***Uapaca*,** taxonomy 7471
- ***Uapaca lissopyrena*,** taxonomy 7471
- **Ubiquitin**
  - *Arabidopsis thaliana*
    - gene expression 12402
    - nucleotide sequences 7615, 12402
  - *Asparagus officinalis*
    - gene expression 12984
    - nucleotide sequences 12984
  - *Glycine max*, nucleotide sequences 9333
  - *Lycopersicon esculentum*, nucleotide sequences 8327
  - *Nicotiana debneyi*, gene expression 6497
  - *Nicotiana glutinosa*, gene expression 6497
  - *Nicotiana sylvestris*, gene expression 12402
  - *Nicotiana tabacum*, gene expression 6497
  - *Oryza sativa*
    - gene expression 1402
    - genetic transformation 1402
  - *Picea abies*, gene expression 8640
  - *Solanum tuberosum*
    - gene expression 5089
    - genetic engineering 5089
    - nucleotide sequences 5089
  - *Zea mays*
    - gene expression 1402, 9023-9024
    - gene location 9044
    - genetic engineering 1402
    - molecular genetics 9023
- **Ubiquitin carrier protein,** *Medicago sativa*, molecular genetics 473
- **Ubiquitin conjugating enzyme,** *Lycopersicon esculentum*, nucleotide sequences 8325
- **UK**
  - AFRC Institute of Grassland and Environmental Research, reports 11126
  - AFRC Institute of Plant Science Research and John Innes Institute, reports 5773-5774, 5786, 5799-5800, 5834, 5841, 5843, 5860, 5892, 5923, 6168, 6173, 6177, 6183, 6193, 6243, 6339, 6341, 6344, 6349, 6353-6354, 6502, 6763, 7109, 7231, 7565
- ***Ullucus tuberosus***
  - abnormal development 10632
  - embryo sac 10632
  - fertility 10632
  - ovules 10632
  - proteins 1813
  - tubers 1813
  - variety classification 1813
- ***Ulmus***
  - chemotaxonomy 5553
  - glycosides 5553
  - interspecific hybridization 5553
  - storage, tissue culture 5552
- ***Ulmus americana*,** *in vitro* selection, *Ceratocystis ulmi* 11001
- ***Ulmus campestris***
  - cell culture 4353
  - *Ceratocystis ulmi* 4353
- ***Ulmus minor*,** storage, tissue culture 5552
- ***Ulmus parvifolia*,** varieties, Ohio 4389
- ***Ulmus pumila***
  - *Botryodiplodia hypodermia* 3348
  - cell culture 4353
  - *Ceratocystis ulmi* 4353

Ultrasonics, *Nigella sativa* 9914

Ultrastructure
- *Lycopersicon esculentum* 10662
- *Lycopersicon pimpinellifolium* 10662
- *Zea mays* 10251

Ultraviolet radiation
- *Arabidopsis thaliana* 1164
  - mutations 6675
- *Beta vulgaris,* sugarbeet 4280
- *Cucumis sativus* 8374
- *Glycine max* 1709, 3949, 9366
- *Lycopersicon esculentum,* mutations 10665
- *Nicotiana tabacum* 3288, 4298
- *Oryza sativa* 440, 3845, 4898, 9231
- *Petunia hybrida* 8699
- *Sinapis alba* 844
- *Sorghum bicolor* 6919
- *Zea mays* 9069, 12669

Umbelliferae
- chromosome morphology 4631
- chromosome number 4631
- computer programming 4631
- databases 4631

Uncinula necator
- *Vitis* 9601
- *Vitis vinifera* 1069, 7295, 9601, 13088

Unreduced gametes
- *Aegilops* × *Triticum* 4682
- *Asparagus* 8318
- *Lolium perenne* 3876
- *Lycopersicon* (×) *Solanum* 7217
- *Medicago falcata* 10423
- *Medicago sativa* 2827
- *Solanum,* tuberous species 2964, 8241, 8244, 9459
- *Solanum chacoense,* heritability 8240
- *Solanum phureja,* heritability 8240
- *Solanum tuberosum* 1783, 2964, 5086, 5094, 8242, 8244

Uracil-DNA glycosylase
- crops 3565
- *Solanum tuberosum* 3565

Urease
- *Glycine max*
  - gene expression 4989
  - restriction fragment length polymorphism 4989

Urena, genetic resources 7406

Urochloa, taxonomy 1646

Urocystis agropyri, *Triticum aestivum* 7800, 7804

Uromyces, *Vicia faba* 8169

Uromyces appendiculatus
- *Phaseolus* 7103
- *Phaseolus vulgaris* 1728, 10512
  - induced mutations 5038
  - random amplified polymorphic DNA 11748

Uromyces viciae-fabae, *Lens culinaris* 8206

USA
- Cooperative Forest Genetics Research Program, reports 4512, 8751
- North Carolina State University-Industry Cooperative Tree Improvement Program, reports 4511
- Pacific Northwest Tree Improvement Research Cooperative, reports 12307

Ustilaginoidea virens, *Oryza sativa* 12767

Ustilago scitaminea
- *Erianthus* 8521
- *Saccharum* 8521
- *Saccharum officinarum* 892, 2022, 4276, 6451, 8520, 8522

Ustilago segetum
- *Avena sativa* 2643, 10204
  - genetics 2644
- *Triticum aestivum* 2528, 3653, 7807
  - gene location 2549
  - genetics 2549, 6787
- *Triticum durum* 7807

Vaccinieae, genetic resources 6306

Vaccinium
- breeding 7282
- chemotaxonomy 13078
- DNA 3144
- drought resistance 4149-4150
- isoenzymes 13078
- nutrients 4149-4150
- polyploidy 3144

Vaccinium *cont.*
- soil types 4149-4150
- taxonomy 11992, 13079

Vaccinium angustifolium
- combining ability
  - fruits 3146
  - quality 3146
- genetics
  - colour 3145
  - fruits 3145
- interspecific hybridization 3146, 11993-11994
- plant composition 11994
- polyploidy 3145
- soil pH 11993-11994

Vaccinium ashei
- interspecific hybridization 13075
- organic acids 13077
- pollination 13075
- quality 13077
- random amplified polymorphic DNA, genetic distance 4147

Vaccinium corymbosum
- combining ability
  - fruits 3146
  - quality 3146
- cryopreservation 6294
- genetic transformation 4148
- *Godronia cassandrae* 5271
- *in vitro* selection, salinity 7286
- interspecific hybridization 3146, 11993-11994, 13075
- organic acids 13077
- plant composition 11994
- pollination 13075
- quality 13077
- regenerative ability 7285, 10770
- soil pH 11993-11994
- tissue culture 4148, 7285, 10770

Vaccinium darrowii
- gene mapping 7284
- interspecific hybridization 7284
- random amplified polymorphic DNA 7284

Vaccinium elliottii
- gene mapping 7284
- interspecific hybridization 7284
- random amplified polymorphic DNA 7284

Vaccinium macrocarpon
- flowering 10769
- interspecific hybridization 11990
- random amplified polymorphic DNA, variety classification 13076
- tissue culture 10769

Vaccinium vitis-idaea
- interspecific hybridization 11990
- tissue culture 11991

Valeriana assamensis, taxonomy 11105

Valerianella, taxonomy 8736

Valine
- *Arabidopsis thaliana,* induced mutations 10018
- *Theobroma cacao* 8539

Variegation
- *Arabidopsis thaliana*
  - mutations 11216
  - nucleocytoplasmic interaction 11216
- *Bougainvillea,* induced mutations 2163
- *Caladium hortulanum,* somaclonal variation 7536
- *Lycopersicon esculentum*
  - genetic markers 11880
  - genetic transformation 11880
  - mutations 5176, 9543
  - transposable elements 9543, 11880
- *Nicotiana tabacum*
  - genetic markers 11880
  - genetic transformation 11880
  - transposable elements 11880
- *Zea mays*
  - gene expression 9090-9091, 10256
  - genetics 10256
  - mutations 9090

Varieties (*significant varieties are located at the end of the entries for each crop*)

Varieties (*see also* Composite varieties; Germplasm releases; Hybrid varieties; Synthetic varieties)
- nomenclature 129

Varieties *cont.*
- *Prunus persica*
  - computer programming 9587
  - databases 9587

Variety classification 2273, 2344-2345, 5717, 11157, 12349
- *Acer rubrum,* random amplified polymorphic DNA 13332
- *Acer saccharinum,* random amplified polymorphic DNA 13332
- *Agaricus* 4502
- *Agrostis,* isoenzymes 9271
- *Allium* 145
- *Annona cherimola,* isoenzymes 8453
- *Artemisia arborescens* 11041
- *Avena fatua* 1378
- *Avena sativa* 1378, 2433
  - random amplified polymorphic DNA 12633
- *Avena sterilis,* random amplified polymorphic DNA 3689
- *Beta vulgaris,* sugarbeet 145, 5431
- *Brassica* 145
  - Chinese cabbages 8774
- *Brassica campestris,* turnip rape, random amplified polymorphic DNA 12034
- *Brassica napus,* rape, random amplified polymorphic DNA 4214
- *Brassica oleracea* 12970
- *Camellia* 11040
- *Capsicum* 8774
- cereals, polymerase chain reaction 12472
- *Citrus* 13098
- *Citrus reticulata* 13098
- *Citrus sinensis* 13098
- *Cocos nucifera* 6372, 6386
- *Colocasia esculenta* 12960
- crops 2888, 5711, 11271
- *Cucumis sativus* 6289
- *Dendranthema* 7512
- *Dendranthema grandiflora* 4414
- *Dianthus caryophyllus* 3394
- *Eriobotrya japonica* 7264
- *Festuca arundinacea* 9255
- fodder legumes 2783
- *Galega officinalis* 2782
- *Glycine max* 2860, 4988, 9340
  - random amplified polymorphic DNA 11698
  - restriction fragment length polymorphism 11698
- *Glycine soja*
  - random amplified polymorphic DNA 11698
  - restriction fragment length polymorphism 11698
- *Gossypium herbaceum* 10657
- *Gossypium hirsutum* 10657
- grasses 2783, 5626
- *Hedysarum coronarium* 2782
- *Hordeum vulgare* 145, 285, 1355, 2432-2433, 2614, 4760
- *Ipomoea batatas,* random amplified polymorphic DNA 11849
- *Juglans regia* 10830
- *Lentinula edodes* 4504
- *Lilium* 2210
- *Lolium boucheanum* 9251
- *Lolium multiflorum* 6067, 9251
- *Lolium perenne* 451, 6067, 9251
- *Lycopersicon* 10657
  - random amplified polymorphic DNA 12998
- *Lycopersicon esculentum* 8774
  - molecular genetics 12999
  - random amplified polymorphic DNA 12998
- *Malus* 4125
- *Malus pumila* 4125, 5234, 9576
- *Nicotiana* 13221
- *Nicotiana tabacum* 13221
- *Onobrychis viciifolia* 2782
- *Oryza,* restriction fragment length polymorphism 11574
- *Oryza glaberrima,* genetic markers 12738
- *Oryza sativa* 10381
  - genetic markers 12738
  - heterosis 6976
  - molecular genetics 3803
  - restriction fragment length polymorphism 11574

Variety classification *cont.*
- *Oxalis tuberosa* 1813
- *Pennisetum purpureum* 373
- *Phalaenopsis* 9894
- *Phaseolus vulgaris* 2888, 9388
- *Phoenix dactylifera* 7309
- *Pisum sativum* 1738, 2782, 2908
- *Pleurotus* 4502
- *Poa pratensis* 11625
- *Poncirus trifoliata* 13098
- *Populus,* random amplified polymorphic DNA 8604
- *Populus grandidentata*
  - random amplified polymorphic DNA 8601
  - restriction fragment length polymorphism 8601
- *Populus tremuloides*
  - random amplified polymorphic DNA 8601
  - restriction fragment length polymorphism 8601
- *Prunus armeniaca* 3132, 5245
- *Pyrus betulifolia* 7261
- *Pyrus calleryana* 7261
- *Rosa* 8664
  - random amplified polymorphic DNA 4409
- *Rubus*
  - raspberries
    - chloroplast genetics 11986
    - restriction fragment length polymorphism 11986
- *Rubus idaeus* 9590
  - random amplified polymorphic DNA 8418, 13071
- *Secale cereale* 145, 1385
  - random amplified polymorphic DNA 11407
- *Solanum tuberosum* 145
  - random amplified polymorphic DNA 3997
  - restriction fragment length polymorphism 8236
- *Stylosanthes* 487
- *Taxus,* isoenzymes 12227
- *Trifolium alexandrinum* 2782
- *Trifolium repens* 451
- *Trifolium resupinatum* 2782
- triticale 2661
- *Triticum* 2494
- *Triticum aestivum* 145, 206, 1294, 2432, 2493, 7757
- *Triticum durum* 2493, 7768
- *Tropaeolum tuberosum* 1813
- *Tulipa gesneriana* 4452
- *Ullucus tuberosus* 1813
- *Vaccinium macrocarpon,* random amplified polymorphic DNA 13076
- vegetables 8774
- *Vetiveria zizanioides,* random amplified polymorphic DNA 9938
- *Vicia faba* 2782, 5004
- *Vicia sativa* 2782
- *Vigna unguiculata* 6216
- *Vigna vexillata* 6216
- *Vitis*
  - molecular genetics 3158
  - random amplified polymorphic DNA 4157
  - restriction fragment length polymorphism 4157
- *Vitis rotundifolia* 9598
- *Vitis vinifera* 3160, 5288, 5293, 9598, 10789
  - molecular genetics 3158
  - multivariate analysis 5287
  - random amplified polymorphic DNA 4159
  - restriction fragment length polymorphism 5286, 11999
- *Zea mays* 145, 9112, 11271, 11457, 11486

Variety trials 28, 5727, 5855
- *Actinidia deliciosa* 5302
- *Agaricus bisporus* 4489
- *Allium cepa* 1816, 7190, 9501-9502
- *Allium sativum* 8298
- *Anacardium occidentale* 6334
- *Apium graveolens* 11870-11871

Variety trials *cont.*
- *Arachis hypogaea* 857-858, 3235, 3564, 4250
- *Asparagus officinalis* 655, 1823, 8317, 9530
- *Avena sativa* 153, 11401
- *Beta vulgaris*
  - fodder beet 5688
    - reports 631
  - sugarbeet 898, 5688, 7376, 10903-10905, 13182-13183
- *Boehmeria nivea* 12170
- *Brassica* 7320
- *Brassica chinensis* 639
- *Brassica juncea* 7320
- *Brassica napus,* rape 139, 3192, 3201, 4201-4202, 5688
- *Brassica oleracea,* cabbages 640, 11863
- *Brassica pekinensis* 639
- *Cajanus cajan* 1757
- *Carum carvi* 5672
- *Carya illinoinensis* 8459-8460, 12025
- *Catharanthus roseus* 11100
- cereals 3570, 4651-4652, 5688, 6725-6726
  - reports 153
- *Cicer arietinum* 3972
- *Cichorium intybus* 11873
- *Citrus* 8444
- *Citrus maxima* 790
- *Citrus sinensis* 791, 5313
- *Cocos nucifera* 1973, 6375-6377, 6402
- *Coffea arabica* 8534-8535
- *Corylus avellana* 7315
- crops 5831
  - reports 5688
- *Cucumis melo* 5206
- *Cucumis sativus* 5215
- *Cucurbita maxima* 10701
- *Cucurbita moschata* 10701
- *Cucurbita pepo* 10701, 11915
- *Cynara scolymus* 11874
- *Dactylis glomerata* 9249
- *Daucus carota* 10611, 11845
- *Dendranthema morifolium* 11057
- *Eruca vesicaria* 7320
- experimental design 8775
- fatty oil plants, reports 139
- *Festuca rubra* 11622
- *Ficus carica* 9612
- fodder legumes 5688, 6058-6059
- *Fragaria ananassa* 766, 1903, 10771-10772
- *Galega officinalis* 2782
- *Gliricidia sepium* 4962
- *Glycine max* 139, 1693, 1713, 2851, 3564, 4982, 5726, 7077, 7583, 9010, 10454-10455, 12828
- *Gossypium* 3315, 3564, 5484-5490, 6510, 12160
- *Gossypium barbadense* 3314
- *Gossypium hirsutum* 940, 3314, 5483, 5491-5492
- grain legumes 5688
  - reports 139
- grasses 5688, 6058-6059
- *Guizotia abyssinica* 1996
- *Hedysarum coronarium* 2782
- *Helianthus annuus* 139, 7334, 7348, 8494-8495, 12056
- *Helianthus tuberosus* 12964
- *Hemarthria altissima* 8086
- herbage crops, reports 139
- *Hevea brasiliensis* 10987
- *Hibiscus cannabinus* 7426-7427, 12171
- *Hippophae rhamnoides* 10798
- *Hordeum vulgare* 153, 4769, 6622, 6818-6819, 8960-8961, 12590
- *Humulus lupulus* 9942
- *Ipomoea batatas* 10623-10624
- *Juglans* 10827
- *Juglans regia* 9640
- *Lactuca sativa* 651, 12979
- legislation 27
- *Lens culinaris* 11765
- *Leucaena diversifolia* 9317
- *Leucaena leucocephala* 9317
- *Leucaena pallida* 9317
- *Limonium sinuatum* 12245
- *Linum usitatissimum*
  - flax 139

Variety trials *cont.*
- *Linum usitatissimum cont.*
  - linseed 139, 5381
- *Lolium* 3570, 4651
- *Lolium multiflorum* 7024, 11627
- *Lolium perenne* 139, 5831, 9250, 11627
- *Lotus corniculatus* 1669-1671
- *Lotus uliginosus* 1669-1670
- *Lupinus albus* 7062
- *Lycopersicon esculentum* 5169, 6261, 11876
- *Malus pumila* 730, 13047
- *Manihot esculenta* 5124, 5128-5129, 6246
- mathematics 3460, 5726, 12350-12351
- *Medicago sativa* 2821-2822, 4940, 7047
- *Musa* 5310, 8436
- *Nicotiana tabacum* 3564
- *Onobrychis viciifolia* 2782
- *Oryza glaberrima* 8038
- *Oryza sativa* 1513-1515, 3795-3796, 7990, 8038, 10339, 11599, 12707
- *Pachyrhizus aphida* 11856
- *Pachyrhizus erosus* 11856
- *Pachyrhizus tuberosus* 11856
- *Pelargonium* 2155
- *Pennisetum pedicellatum* 10324
- *Phaseolus vulgaris* 3958, 5020-5021, 6106, 6155-6157, 9387, 10501-10502, 11740-11742, 12872
- *Phleum pratense* 139, 1638, 11622
- *Pisum sativum* 139, 2782, 2903, 6106, 9399, 10513-10514, 12885-12886
- *Poa pratensis* 139, 13350
- *Prunus domestica* 744
- *Prunus persica* 7278, 11968
- *Pseudotsuga menziesii* 12307
- *Pyrus communis* 13053
- *Raphanus sativus* 8294
- *Rhododendron* 12230
- *Rosa* 2170
- *Rubus idaeus* 760
- *Rubus occidentalis* 760
- *Saccharum* 10897, 12101
- *Saccharum officinarum* 878, 2002-2003, 2016, 4272-4273, 5410, 6436, 8509, 12103, 13177
- *Secale cereale* 153, 3693, 8867
- *Sinapis alba* 7320
- *Solanum tuberosum* 600, 9449, 11792-11793
  - databases 8235
  - statistics 5103
- *Sorghum bicolor* 3564, 4858-4859, 6915
- statistics 3473, 5725, 7583
- *Tagetes erecta* 12246
- *Tagetes patula* 12246
- *Tanacetum cinerariifolium* 1053
- *Theobroma cacao* 2047
- *Trifolium alexandrinum* 2782
- *Trifolium pratense* 4949
- *Trifolium resupinatum* 2782
- triticale 153, 6741, 8867
- *Triticum aestivum* 153, 1266, 2451, 4669-4671, 4673, 5726, 5831, 5855, 6740-6741, 7721, 8779, 8867, 10071, 11298, 12483
  - statistics 2444, 5854
- *Triticum durum* 153, 2452, 2511, 7722, 8891
- *Triticum spelta* 153
- *Vicia faba* 136, 139, 2782
- *Vicia sativa* 2782
- *Vigna radiata* 7147
- *Vigna unguiculata* 1399, 11777
- *Vitis* 5283
- *Vitis vinifera* 5283, 10782-10783
- *Xanthosoma atrovirens* 3035
- *Xanthosoma caracu* 3035
- *Xanthosoma violaceum* 3035
- *Zea mays* 301, 305, 1391, 1398-1399, 2669, 3706-3707, 4811, 6877, 6880-6881, 7583, 7878, 9006, 9008, 9010, 11422
  - quality 9141
  - sweetcorn 9009, 10220, 12654
- *Zingiber officinale* 9923
- *Ziziphus mauritiana* 5330

Vascular system
- *Oryza sativa* 409, 3846
- *Triticum aestivum* 210

Vegetables
  breeding 12462
    history 11267
    reports 1069, 2249, 5686, 6621
  genetic resources 1226, 4644, 5827
  heterosis 1185
  hybrid seed production 1232
  hybrid varieties 1232
  nutritive value 8866
  plant composition 8866
  plant introduction 4644
  variety classification 8774
  varieties 2414
Vegetative hybridization (*see* Graft hybridization)
Vegetative propagation
  Fragaria ananassa 767
  Manihot esculenta 5128
  Polymnia sonchifolia 5139
  Pseudotsuga menziesii 9826
  temperate fruits 3106
  Zea 9053
Vegetative reproduction, crops, reviews 11246
Venturia inaequalis
  Malus 738, 1893
    genetics 7256, 10731
  Malus floribunda, genetics 6296
  Malus micromalus, genetics 7256
  Malus pumila 738, 1069, 3114, 3117, 3119, 5232-5233, 8387-8388, 10727-10728, 10732
    genetics 3120, 5234, 6296, 7248, 7257, 8390, 10730
    in vitro selection 8389
Venturia pirina, *Pyrus* 8396
Verbena tenera, tissue culture 8685
Vernalization
  Arabidopsis thaliana 3522
    gene location 3525
  Beta maritima, genetics 2032
  Brassica napus
    rape 13136
      genetics 9666
  Lupinus albus 1665
  Triticum aestivum 2489, 10093, 12528
    gene location 2484
    genetics 10105
Veronica hederifolia, *Triticum aestivum* 5900
Verticillium (*see also Phialophora)*
  Gossypium 951
  Gossypium hirsutum 10960
  Pisum sativum
    gene expression 8273
    genetic engineering 8273
  Solanum tuberosum, genetic transformation 8273
Verticillium albo-atrum
  Capsicum, artificial selection 707
  Lycopersicon esculentum 10681
  Medicago sativa 1659, 2833, 10431
    genetic variance 2834
    germplasm releases 11668
  Solanum tuberosum 10599
Verticillium dahliae
  Brassica napus, rape 8488
  Capsicum
    artificial selection 4101
    genetics 4101
  Capsicum annuum 706, 708
  Capsicum baccatum 706
  Capsicum chacoense 706
  Capsicum chinense 706
  Capsicum frutescens 706
  Gossypium hirsutum 4339, 13244
  Lycopersicon esculentum 3062, 8340
  Olea europaea 4243-4245
  Solanum torvum 2985
  Solanum tuberosum 2985, 2989, 10593, 10598-10599, 11838
Verticordia, storage, pollen 9837
Vetiveria zizanioides
  random amplified polymorphic DNA, variety classification 9938
  tissue culture 6614
Vicia
  chloroplast genetics, evolution 9383
  molecular genetics 3926
  restriction fragment length polymorphism, evolution 9383
Vicia abbreviata, taxonomy 7060
Vicia balansae, taxonomy 7060
Vicia ervilia
  cold resistance 9306
  growth period 9306
  nutritive value 10439
  yield components 9306
  yield correlations 9306
Vicia faba
  air pollution 5798
  Alternaria alternata 5015
  artificial selection
    growth period 12869
    lodging 12869
    stress 7072
    yields 2878, 12869
  Ascochyta 8169
  Botrytis 8169
  breeding, reports 136
  cell division 12870
  chloroplast genetics, evolution 9383
  chromosome aberrations 528, 3540, 5000, 5798, 10037
  chromosome banding 12870
  chromosome morphology 6108, 12870
  cold resistance 6110
  convicine 4978
  cypermethrin 10037
  cysteine 106
  desiccants 528
  determinate and indeterminate habit 5003
  Didymella fabae 2882
  diethyl sulfate 6147-6148
  digestibility 5009-5011, 5013, 8168
  diseases 6152, 8139
    reviews 8140
  Ditylenchus dipsaci 8141
  DNA 7670
  DOPA 4978
  drought resistance 6111
  ethyl methanesulfonate 6147-6148
  evolution 4996
  flowering 1717, 5835
  fungi 6114, 6153
  Fusarium 136
  Fusarium culmorum 2883
  Fusarium oxysporum 2883
  Fusarium solani 2883
  gamma radiation 106, 136
  gene banks, reports 152
  gene expression
    albumins 4199
    cyclophilin 10500
    nodulation 532
    nodulins 4998
    sucrose synthase 2879, 4998
  genetic resources 530-531, 6105, 8131
  genetic transformation, albumins 4199
  genetic variance, yield components 6151, 10494
  genetic variation, isoenzymes 3956, 5004
  genetics
    convicine 5014
    isoenzymes 3955, 8167
    legumin 7096
    polypeptides 9382
    vicilin 9382
    vicine 5014
  genotype environment interaction, outcrossing 11734
  germination 6149, 7097
  Gibberella avenacea 2883
  growth period 1717, 5003
  hard seeds 5002
  heat resistance 6110
  heritability
    outcrossing 11734
    yield components 136, 6151, 10498
  Heterodera 8141
  heterosis, yield components 10494-10496, 11735
  heterozygosity 10499
  immunology, cytoplasmic male sterility 8166
  induced mutations 6108
    convicine 5014
    flowers 6148
    fruits 6148
    growth period 6148
    height 136
    morphology 6147
Vicia faba *cont.*
  induced mutations *cont.*
    seeds 6148
    vicine 5014
  inflorescences 5003
  insects 6117, 8142
  lectins 5011
  lysine 5006
  maleic hydrazide 5000
  mechanical damage 4971
  Meloidogyne 8141
  molecular genetics, cytoplasmic male sterility 3954
  multivariate analysis 530
    yield components 2880, 3957, 6150
  mutagens 106, 5000, 6147-6148, 10037
  mutations, nodulation 532
  Nematoda 6116
  nucleocytoplasmic interaction, male sterility 11733
  nucleotide sequences
    cyclophilin 10500
    GTP-binding proteins 9381
    legumin 9380
    nodulins 4997-4998
    proteins 1716
    sucrose synthase 4998
  nutritive value 1691, 5010-5012
  oligosaccharides 4978
  Orobanche 6153-6154, 8169
  outcrossing 5001, 8167
  pesticides 10037
  pests 6152
  photoperiodism 5835
  plant embryos 7670
  pollination 5001
  polymerase chain reaction
    chromosomes 8165
    legumin 7096
    techniques 8165
  proteins 529, 1691, 5006, 5009
  quality 529
  regenerative ability 1240
  restriction fragment length polymorphism, evolution 9383
  Rhizoctonia solani 2881
  salinity 6111, 7097
  seed aging 4999
  seed moisture 4971, 5000
  seed testing 2782, 4971
  seeds 4971, 7097
  sister chromatid exchange 4999
  soil toxicity 5798
  stability, yield components 10497, 10499
  storage, seeds 11266
  stress 5798, 6152
  synthetic varieties 136, 10495
  tannins 4978, 5007-5013, 8168
  taxonomy 531
  tissue culture 1240, 4972
  trypsin inhibitors 4973, 4978, 5008, 5011
  Uromyces 8169
  variety classification 2782, 5004
  variety trials 136, 139, 2782
  vicine 4978
  viruses 6115
  wide hybridization 12869
  yield components 529-531, 5003
  yield correlations 136, 5005, 10498
  varieties
    Shambat-104 6146
    Shambat-75 6145
Vicia hirsuta
  gene expression, nodulation 11681
  genetic transformation, nodulation 11681
Vicia montbretii, *Ascochyta fabae* 12909
Vicia narbonensis
  gene expression, albumins 4199
  genetic resources 4996
  genetic transformation, albumins 4199
  nutritive value 10439
Vicia palaestina, nutritive value 10439
Vicia pisiformis
  gene mapping 12819
  random amplified polymorphic DNA 12819
  restriction fragment length polymorphism 12819
Vicia radiata
  multivariate analysis 589
  yield components 589

- ***Vicia sativa***
  - breeding 4955
  - cold resistance 9306
  - gene expression, nodulation 521
  - genetics, determinate and indeterminate habit 2843
  - growth period 9306
  - induced mutations, determinate and indeterminate habit 2843
  - lasers 2843
  - molecular genetics 3926
    - chromosome morphology 2376
  - multivariate analysis, morphology 11680
  - nutritive value 10439
  - seed testing 2782
  - taxonomy 11680
  - variety classification 2782
  - variety trials 2782
  - yield components 9306
  - yield correlations 9306
  - varieties
    - Belotserkovskaya-70 2412
    - Lugovchanka 4955
    - Lugovskaya-83 4955
    - Lugovskaya-85 4955
    - Tsivilyanka 2413
    - Uzunovskaya-83 4955
- ***Vicia unijuga***
  - natural selection, histones 483
  - population genetics, histones 483
- ***Vicia villosa***
  - breeding 4955
  - cold resistance 9306
  - growth period 9306
  - yield components 9306
  - yield correlations 9306
  - varieties, Lugovskaya 4955
- ***Vicia* × *Lens*,** intergeneric hybridization 2842
- **Vicieae**
  - proteins 9418
  - taxonomy 9418
- **Vicilin**
  - *Medicago sativa*
    - gene expression 6107
    - genetic transformation 6107
  - *Nicotiana tabacum*
    - gene expression 6107
    - genetic transformation 6107
  - *Picea engelmannii,* gene expression 7485
  - *Picea glauca,* gene expression 7485
  - *Pisum sativum*
    - gene expression 6107
    - genetic engineering 6107
    - genetics 556
    - induced mutations 556
  - *Vicia faba,* genetics 9382
- **Vicine**
  - grain legumes 4976
  - *Vicia faba* 4978
    - genetics 5014
    - induced mutations 5014
- ***Vigna***
  - *Callosobruchus chinensis* 3990
  - *Callosobruchus maculatus* 3990, 9436
  - chloroplast genetics, taxonomy 3981
  - chromosome banding 8228
  - chromosome morphology 7149
  - cytotaxonomy 8228
  - flowering 6218
  - genetic distance, isoenzymes 9428
  - genetic resources 6218
  - hard seeds 6218
  - linkage, restriction fragment length polymorphism 12826
  - source sink relations 6218
  - taxonomy, history 584
- ***Vigna aconitifolia***
  - bean yellow mosaic potyvirus 11788
  - hydroxylamine 3984
  - induced mutations
    - chlorophyll 3984
    - morphology 3984
  - mutagens 3984
  - nucleotide sequences, nodulation 6220
  - sodium azide 3984
- ***Vigna angularis***
  - breeding 6104
  - diseases 8230
  - gene expression, chitinase 9440
  - genetic resources 496, 6104, 6219
- ***Vigna angularis** cont.*
  - genetic variance
    - growth period 6222
    - morphology 6222
  - heat sums 496
  - nucleotide sequences, chitinase 9440
  - photoperiodism 496
  - polymorphism, photosynthesis 932
  - protoplasts 1771
  - random amplified polymorphic DNA 1763
  - seedlings 5073
  - seeds 5073
  - yield components 496
  - varieties, Bao-801180 10053
- ***Vigna glabrescens***
  - chemotaxonomy 1772
  - evolution 1772
  - lectins 1772
- ***Vigna kokii,*** taxonomy 6224
- ***Vigna mungo***
  - *Callosobruchus maculatus* 9444
  - chromosome morphology 9439
  - diseases 8230
  - ethyl methanesulfonate 1766-1767
  - flowering 11782
  - gamma radiation 1766
  - genetic markers
    - acid phosphatase 1765
    - esterases 1765
    - isoenzymes 1765
    - peroxidases 1765
  - genetics
    - colour 9441
    - fruits 9441
    - mung bean yellow mosaic bigeminivirus 9443
  - growth period 5077
  - heritability
    - harvest index 10555
    - yield components 10557, 11784
  - induced mutations, yield components 1766-1767
  - interspecific hybridization 1765
  - *N*-methyl-*N*-nitrosourea 1767
  - mutagens 1766-1767
  - mutations
    - flowers 5076
    - globulins 5076
    - seeds 5076
  - nucleotide sequences, α-amylase 8224
  - photoperiodism 11782
  - seeds 5077
  - *Spilarctia obliqua* 9445
  - temperature 11782
  - yield correlations 7150, 9442, 11784
- ***Vigna radiata***
  - breeding 5074, 6103
  - *Cercospora canescens* 5079, 7156, 8229
  - combining ability
    - harvest index 10556
    - yield components 7152
  - diseases 5074, 8230
  - *Erysiphe polygoni* 5079, 6226
  - ethyl methanesulfonate 1766
  - flowering 6218, 11782
  - gamma radiation 1766
  - gene expression
    - acyl-CoA desaturase 11783
    - calmodulin 8225
    - late embryogenesis abundant proteins 11783
  - genetic markers
    - acid phosphatase 1765
    - esterases 1765
    - isoenzymes 1765
    - peroxidases 1765
  - genetic resources 496, 6218
  - genetic variance, yield components 590, 1770
  - genetics
    - bean common mosaic potyvirus 8232
    - *Callosobruchus chinensis* 593
    - *Erysiphe polygoni* 12923
    - *Riptortus clavatus* 593
  - genotype environment interaction, yield components 3989
  - hard seeds 6218
  - heat sums 496
  - heritability, yield components 590, 1769-1770
- ***Vigna radiata** cont.*
  - heterosis
    - nodulation 2939
    - yield components 2939, 6223, 7151
  - *in vitro* selection
    - hydroxyproline 7155
    - mannitol 592
    - salinity 592, 7154-7155
    - stress 592
  - induced mutations, yield components 1766
  - interspecific hybridization 1765
  - *Macrophomina phaseolina* 10561
  - mung bean yellow mosaic bigeminivirus 5080-5081, 12924
  - mutagens 1766
  - mutations 6221
  - *Mycosphaerella cruenta* 7156
  - nitrogen fixation 6225
  - nucleotide sequences
    - calmodulin 8225
    - cinnamate 4-hydroxylase 1764
  - peroxidases 10561
  - photoperiodism 496, 11782
  - physiology 1768
  - restriction fragment length polymorphism
    - *Erysiphe polygoni* 8231
    - insects 594
  - *Rhizobium* 2939
  - salinity 10560, 11786-11787
  - source sink relations 6218
  - stability
    - nitrogen 591
    - yields 591
  - temperature 11782
  - tissue culture 10559, 11787
  - variety trials 7147
  - *Xanthomonas campestris* 5078
  - yield components 496
  - yield correlations 1768, 3986-3988, 10558
  - varieties
    - Ouro Verde 5075
    - Paiyur-1 7148
- ***Vigna sublobata***
  - ethyl methanesulfonate 1766
  - gamma radiation 1766
  - induced mutations, yield components 1766
  - mutagens 1766
- ***Vigna subterranea,*** nomenclature 12922
- ***Vigna umbellata***
  - flowering 11782
  - heritability, yield components 7153
  - nutritive value 11785
  - outcrossing 3985
  - photoperiodism 11782
  - pollination 3985
  - temperature 11782
  - yield correlations 7153
- ***Vigna unguiculata***
  - aluminium 12919
  - *Aphis craccivora* 3983
  - artificial selection
    - *Callosobruchus maculatus* 587
    - drought resistance 10553
  - *Aspergillus flavus* 10554
  - bentazone 8223
  - blackeye cowpea mosaic potyvirus 8221
  - breeding 5069, 6104, 11268
  - *Callosobruchus* 11781
  - *Callosobruchus maculatus* 5072, 7145-7146, 9436, 9438, 11780
  - centres of diversity 3980
  - centres of origin 3980
  - *Chalcodermus bimaculatus* 5071
  - colchicine 12916
  - corolla 9435
  - cowpea severe mosaic comovirus 5070
  - crop mixtures, *Pennisetum glaucum* 9431
  - cucumber mosaic cucumovirus 8221
  - drought resistance 9433, 11777
  - flowering 11778
  - flowers 10550
  - forage 1762, 7142
  - gene expression 581
    - cowpea mosaic comovirus 2938
    - *Rhizobium* 10549
  - genetic distance, isoenzymes 9428
  - genetic resources 6104, 6215
  - genetic transformation 581

Vigna unguiculata *cont.*
- genetic variance, yield components 11779
- genetic variation, vignin 9427
- genotype environment interaction 9431
  - drought resistance 12918
  - water balance 12918
  - yield components 8219, 10551
- growth period 9432
- habit 6215
- heat resistance 8220
- herbicides 8223
- heritability, yield components 2936
- hydroxylamine 7141
- induced mutations
  - growth period 7141
  - yield components 7141
- insects 586
- iron 9430
- light 8220
- *Maruca vitrata* 9435, 9437
- *Megalurothrips sjostedti* 585
- mitochondria 10552
- molecular genetics
  - *Callosobruchus maculatus* 588
  - proteinase inhibitors 588
  - *Rhizobium* 10549
- multivariate analysis, yield components 3980
- mutagens 7141, 12916
- mutations, seeds 12916
- nucleotide sequences, ferritin 8217
- nutrients 9431
- phosphorus 7144, 9431
- photoperiodism 11778
- *Phytophthora vignae* 2937, 9434
- plant composition 10554
- plant introduction 6215
- pollen competition 3979
- polymerase chain reaction, ferritin 8217
- proteins 6216, 9438, 12917
- random amplified polymorphic DNA 1763
- salinity 10552
- seeds 12917
- *Septoria vignicola* 12921
- soil water 9432
- stability 5070
  - yield components 583
- streptomycin 7141
- *Striga gesnerioides* 8222
- taxonomy 7143
- temperature 8220, 11778
- tissue culture 9429
- toxic substances 12919
- variety classification 6216
- variety trials 1399, 11777
- viruses 3982, 5070
- water balance 10553
- *Xanthomonas campestris* 12920
- yield correlations 582, 6217, 7142, 7144, 8218
- varieties
  - Bettergreen 8216
  - Cowpea 263 7140

Vigna vexillata
- corolla 9435
- *Maruca vitrata* 9435
- pollen 8226-8227
- proteins 6216
- variety classification 6216

Vignin, *Vigna unguiculata,* genetic variation 9427

Vigour
- *Asparagus officinalis* 10652
- *Citrus* 9622
- *Malus pumila* 10725
- *Piper nigrum* 3432

Viola, taxonomy 2193

Viola canina
- interspecific hybridization 11060
- taxonomy 11060

Viola cazorlensis
- flowers 4421
- pollination 4421

Viola diversifolia
- pollen 8679
- pollen germination 2187, 8679

Viola persicifolia
- interspecific hybridization 11060
- taxonomy 11060

Viola pilosa, cytotaxonomy 5646

Viruses
- *Beta vulgaris,* sugarbeet, germplasm releases 899
- *Capsicum annuum* 10695
- *Cicer arietinum* 6115
- crops
  - books 3451
  - genetic engineering 8789, 9970
  - genetic transformation 9968-9970
  - reviews 2314
- *Cucurbita* 5214
- fruit crops, genetic engineering 7247
- gene expression 6670
- genetic engineering 36, 2313, 6653, 9966
- genetic transformation 1128, 2313, 3481, 3487, 4548, 5744, 9966
- *Hordeum vulgare,* genetics 2624
- *Humulus lupulus* 4486
- *Ipomoea batatas* 10628
- *Lens culinaris* 6115
- *Lycopersicon esculentum* 2342
- *Malus pumila* 7258
- molecular genetics 2312, 11170-11171
- *Nicotiana plumbaginifolia*
  - molecular genetics 6480
  - nucleotide sequences 6480
- *Nicotiana tabacum* 2342, 3304
  - genetic engineering 5477
- *Oryza sativa* 11610
  - gene expression 11609
  - genetic transformation 11609
- *Pisum sativum* 6115
- *Saccharum officinarum,* genetic engineering 6454
- *Solanum tuberosum* 2342, 5116, 7165
  - gene expression 10607
  - genetic transformation 10607
  - reviews 11840
- *Sorbus* 8398
- *Vicia faba* 6115
- *Vigna unguiculata* 3982, 5070
- *Vitis vinifera* 3156
  - genetic transformation 3166
- *Zea mays* 11497

Vitamin E, *Setaria italica* 4875

Viteus vitifoliae
- *Vitis* 13089
- *Vitis californica* 3168
- *Vitis vinifera* 7296, 9602, 11943

Vitex
- chemotaxonomy 2227
- evolution 2227

Vitidaceae, genetic resources 4153

Vitis
- drought resistance 5296
- fatty acids 1908
- flooding 5296
- *Fusarium oxysporum* 12002
- genetic resources 4154, 9567
- grapevine fanleaf nepovirus 3167
- *in vitro* selection
  - chlorosis 4161
  - cold resistance 9600
- interspecific hybridization 9601
- molecular genetics, variety classification 3158
- plant composition 4160
- quality 4160
- random amplified polymorphic DNA 4158
  - variety classification 4157
- regenerative ability 5290
- restriction fragment length polymorphism, variety classification 4157
- rootstocks 4156, 5296, 13089
- soil pH 5296
- *Uncinula necator* 9601
- variety trials 5283
- *Viteus vitifoliae* 13089
- varieties 9596
  - US17 4156
  - US24-21 4156
  - US28 4156
  - US41 4156

Vitis amurensis
- cold resistance 782-783
- interspecific hybridization 781-783

Vitis californica, *Viteus vitifoliae* 3168

Vitis labrusca, varieties, Sunbelt 8425

Vitis riparia, *Agrobacterium* 13087

Vitis rotundifolia
- grapevine fanleaf nepovirus 8430
- interspecific hybridization 8430
- polypeptides 9598
- rootstocks 8430
- sugars 6311
- variety classification 9598

Vitis rupestris
- genetic transformation 13084
- grapevine fanleaf nepovirus 3167
- tissue culture 13084

Vitis tiliifolia, genetic resources 768

Vitis vinifera
- *Agrobacterium* 13087
- *Agrobacterium tumefaciens* 3163
- anther culture 777, 8428
- anthocyanidins 3161
- anthocyanins 781, 3161, 5288
- arabis mosaic nepovirus 784
- artificial selection 3156, 10777-10780
  - *Botrytis cinerea* 3165
  - history 10776
- *Botrytis cinerea* 3164
- breeding 769-771, 773, 784, 3154-3157, 4155, 5282, 7291, 8424, 10777, 10781
  - history 10776
  - reports 1069, 6621
- carbohydrates 10793
- carotenoids 10788
- cell culture 10791
- chlorophyll 10788
- cold resistance 782-783, 1069, 7292, 10795
- DNA 8428, 11999
- drought resistance 1069, 4162, 7294, 10788
- embryo culture 8428
  - seedlessness 12001
- fatty acids 1908
- fruits 5285, 7293
- gene banks 1907
- gene expression
  - enzymes 8429
  - flavonoids 8429
  - stilbenes 8429
- genetic engineering
  - phytoalexins 6499
  - resveratrol 6499
  - trihydroxystilbene synthase 6499
- genetic resources 1069, 1907, 4154, 6309
- genetic transformation, viruses 3166
- grapevine fanleaf nepovirus 779, 3167, 8430
- grapevine leafroll associated closterovirus 779
- haploidy 1069
- hydroxycinnamyltartaric esters 5288
- *in vitro* culture 780
  - reviews 3162
- *in vitro* selection, anthocyanins 5292
- interspecific hybridization 781-783, 8430, 9601
  - seedlessness 12001
- leaves 10789
- *Lobesia botrana* 5299
- *Meloidogyne incognita* 11943
- *Meloidogyne javanica* 11943
- molecular genetics, variety classification 3158
- multivariate analysis
  - geography 5287
  - leaves 5287
  - variety classification 5287
- mutations
  - colour 3159
  - fruits 3159
- necroses 5298
- nitrates 10787
- nucleotide sequences
  - enzymes 8429
  - flavonoids 8429
  - stilbenes 8429
- organic acids 10793
- ovule culture 778
  - seedlessness 12001
- phenolic compounds 5288
- phenols 780
- pigments 781
- plant composition 13088
- plant disorders 5298

- ***Vitis vinifera*** *cont.*
  - polypeptides 9598
  - polyploidy 5284, 13085
  - proanthocyanidins 10792
  - protected cultivation 10781
  - quality 5293-5294, 7292, 10794, 11998
  - random amplified polymorphic DNA 12000
    - variety classification 4159
  - raspberry ringspot nepovirus 784
  - reciprocal effects 13085
  - regenerative ability 13086
  - restriction fragment length polymorphism
    - ecotypes 5295
    - variety classification 5286, 11999
  - resveratrol 3164
  - ripening 7293, 9599
  - rootstocks 8430, 11943
  - seed production 5284
  - seedlessness 3154, 10784, 10787
  - soil water 10788
  - somaclonal variation 10790
    - anthocyanins 5292
  - stability, fruits 776
  - storage, pollen 4169
  - sugars 6311
  - tissue culture 779-780, 5289, 5291, 10790-10791, 13086
  - *Uncinula necator* 1069, 7295, 9601, 13088
  - variety classification 3160, 5288, 5293, 9598, 10789
  - variety trials 5283, 10782-10783
  - viruses 3156
  - *Viteus vitifoliae* 7296, 9602, 11943
  - waxes 5285
  - wide hybridization 5284, 13085
  - wines 1069
  - xylem 5298
  - yellows 5297
  - varieties 774, 11998
    - Aki Queen 9597
    - Arkavati 775
    - Artzebat 5282
    - Bonarda Piemontese 3160
    - Croatina 3160
    - Devín 772
    - Ekigaïna 5282
    - Honey Black 8427
    - Kram 10785
    - Northern Black 8426
    - Pola 10781
    - Rusbol 10784
    - Sunbelt 13083
    - Svatovavřinecké 773
    - Uva Rara 3160
    - Vidal 7292
    - Vitra 10781
    - Xiyanghong 10786
    - Zhaixiang 6310
- **Vitronectin**
  - *Glycine max*
    - immunology 8708
    - molecular genetics 8708
  - *Lilium longiflorum*
    - immunology 8708
    - molecular genetics 8708
- **Vivipary**
  - *Arabidopsis thaliana,* mutations 12418
  - *Oryza sativa*
    - gene expression 8003
    - induced mutations 12734
    - nucleotide sequences 8003
  - *Zea mays*
    - gene expression 5974, 11453
    - mutations 5974, 7917, 9083, 10253, 11453
    - pleiotropy 5974
- ***Vochysia tucanorum***
  - pollination 13285
  - self incompatibility 13285
- ***Volvariella diplasia***
  - interspecific hybridization 2244
  - protoplast fusion 2244
- ***Volvariella volvacea***
  - interspecific hybridization 2244
  - protoplast fusion 2244
  - reproduction 4499
  - spores 5682
  - yields 6619
- **Vomitoxin**
  - triticale, *in vitro* selection 2664
  - *Triticum aestivum* 2537, 6785
- ***Vulpia* × *Festuca*,** intergeneric hybridization 3881
- ***Walsura*,** taxonomy 11014
- **Water balance** 1110
  - *Aegilops* 7758
  - *Agrostis stolonifera* 6072
  - *Arabidopsis thaliana*
    - gene expression 11217
    - genetic engineering 11217
    - nucleotide sequences 11217
  - *Arachis hypogaea* 10876
  - *Capsicum annuum* 1854
  - *Festuca arundinacea* 1631
  - *Helianthus annuus* 7337, 7339
  - *Hordeum vulgare* 7858, 12605
  - *Larix occidentalis* 12223
  - *Medicago sativa* 2828, 9285
  - molecular genetics 11273
  - *Pinus pinaster* 5586
  - *Pisum sativum* 12892
    - mutations 8193
  - *Prunus persica* 8414
  - *Solanum tuberosum* 9473
  - *Triticum* 7758
  - *Triticum aestivum* 2499, 3619, 4721, 7759, 11347
  - *Triticum durum* 1324, 2499
  - *Vigna unguiculata* 10553
    - genotype environment interaction 12918
  - *Zea mays* 6892, 11494
- **Water soluble proteins**
  - *Hordeum vulgare*
    - gene mapping 7836
    - restriction fragment length polymorphism 7836
- **Watercress yellow spot virus,** *Nasturtium officinale* 5167
- **Waterlogging**
  - *Brassica campestris* 9671
  - *Glycine* 3950
  - *Glycine max* 3950
  - *Glycine soja* 3950
  - *Lens culinaris* 7126
  - *Malus pumila* 10733
  - *Oryza sativa* 442
  - *Sesamum indicum* 1994
  - *Triticum aestivum* 1326
  - *Triticum durum* 1326
- **Watermelon mosaic 2 potyvirus**
  - *Cucumis melo* 1858, 11910
    - artificial selection 13031
    - genetics 13031
  - *Cucumis sativus* 5205
  - *Cucurbita* 5205
  - *Cucurbita moschata,* genetics 4111
  - *Cucurbita pepo* 11923
- ***Watsonia borbonica*,** nomenclature 9885
- **Waxes**
  - *Aegilops markgrafii* 7810
  - *Aegilops* × *Triticum* 7810
    - genetics 10096
    - inhibitor genes 10096
  - *Brassica juncea* 9672
  - *Brassica napus* 9672
    - rape 7330
  - *Brassica oleracea,* kale 7330
  - *Elymus trachycaulus,* genetics 10406
  - *Gossypium* 10976
  - *Gossypium hirsutum* 10976
  - *Hordeum vulgare,* genetics 2434
  - *Leymus angustus,* heritability 9260
  - *Olea europaea* 9685
  - *Pisum sativum*
    - genetics 10519
    - induced mutations 10519
  - *Sorghum bicolor,* induced mutations 6931
  - *Triticum aestivum* 11318
    - artificial selection 7764
    - genetics 10096
    - inhibitor genes 10096
  - *Triticum durum*
    - artificial selection 7764
    - genetics 7763
  - *Vitis vinifera* 5285
- **Weathering**
  - *Gossypium* 8574
- **Weathering** *cont.*
  - *Sorghum bicolor* 6930
- **Weeds**
  - crops 7597
  - *Hordeum vulgare* 12585
  - *Lens culinaris* 6200
  - *Phaseolus vulgaris* 9398
  - *Triticum aestivum* 5900
- **Weight,** *Triticum aestivum,* heterosis 11327
- **Wheat soilborne mosaic furovirus**
  - *Aegilops* × *Triticum,* germplasm releases 10131
  - *Triticum aestivum,* germplasm releases 10131
- **Wheat spindle streak mosaic bymovirus**
  - *Aegilops* × *Triticum,* germplasm releases 10131
  - *Triticum aestivum,* germplasm releases 10131
- **Wheat streak mosaic rymovirus,** *Zea mays,* restriction fragment length polymorphism 10292
- **Wheat yellow mosaic bymovirus,** *Triticum aestivum* 11366
- ***Whetzelinia*** (*see Sclerotinia)*
- **White clover mosaic potexvirus,** *Trifolium repens* 9304
- **White lupin mosaic potyvirus**
  - *Pisum sativum*
    - gene location 8203
    - genetics 8203
- **Wide hybridization** 1184
  - *Brassica campestris,* turnip rape 3202
  - *Brassica oleracea*
    - broccoli 4028
    - cabbages 4028
  - *Bromus inermis* 466
  - cereals 1246
  - *Cocos nucifera* 6383, 10872
  - *Cucumis sativus* 723
  - *Festuca* 2797
  - *Hordeum vulgare* 2588
  - *Lens culinaris* 561
  - *Lycopersicon esculentum* 13000
  - *Ocimum americanum* 2235
  - *Oryza sativa* 1531, 2734, 2747, 3821, 3833, 3839, 6024, 6982, 9202-9206, 12727-12729
    - genetic markers 3815
    - genetics 10360, 12733
    - restriction fragment length polymorphism 3815
  - *Pennisetum pedicellatum* 370
  - *Phaseolus vulgaris* 2884, 11739
  - *Raphanus sativus* 628
  - *Solanum* 3010
    - tuberous species 9461
  - *Solanum brevidens* 12933
  - *Solanum tuberosum* 3010, 8242, 12933
  - *Sorghum bicolor* 12690
  - *Triticum aestivum* 7750
  - *Vicia faba* 12869
  - *Vitis vinifera* 5284, 13085
- **Wilts,** *Gossypium* 3328
- **Wind**
  - *Pinus patula,* heritability 7483
  - *Pseudotsuga menziesii,* combining ability 7495
- **Wines,** *Vitis vinifera* 1069
- **Wood properties**
  - *Acer campestre* 12200
  - *Acer platanoides* 12200
  - *Acer pseudoplatanus* 12200
  - *Castanea sativa* 5340
  - *Ceiba pentandra* 8621
  - *Cryptomeria japonica* 9833
  - *Eucalyptus* 13265
  - *Eucalyptus globulus,* artificial selection 9778
  - *Eucalyptus grandis* 8590
  - forest trees, artificial selection 12182
  - *Leucaena diversifolia* 9806
  - *Leucaena leucocephala* 5566
  - *Libocedrus formosana* 9834
  - *Picea abies* 13316
  - *Pinus elliottii* 13304
    - genetic variance 9818
  - *Pinus pinaster* 11023
  - *Pinus radiata* 8637, 11024
    - heritability 8636
  - *Pinus taeda* 13304

- **Wood properties** *cont.*
  - *Pinus taeda cont.*
    - artificial selection 13305
  - *Populus* 6542, 8603
  - *Prunus avium* 5558
  - *Pseudotsuga menziesii* 6557-6558, 8654
    - heritability 11032
  - *Quercus petraea,* heritability 7443
  - *Quercus robur,* heritability 7443
  - *Salix* 6544
  - *Santalum album,* somaclonal variation 1060
- **Woody plants**
  - gene banks 8765
  - genetic resources 967
  - protoplasts 3558
  - storage
    - pollen 8765
    - seeds 8765
  - tissue culture, books 5702
- ***Wrightia versicolor,*** taxonomy 12294
- **X chromosome** (*see* Sex chromosomes)
- **X radiation**
  - *Arabidopsis thaliana* 7636
  - *Capsicum annuum* 1848, 4095
  - *Dianthus* 4428
  - *Gerbera jamesonii* 5633, 5636
  - *Hordeum vulgare* 1371, 8959
  - *Lolium multiflorum* 12786
  - *Nicotiana plumbaginifolia* 8549
  - *Oryza sativa* 1519
  - *Petunia hybrida* 8699
  - *Solanum tuberosum* 2969
  - *Tradescantia* 12256
  - *Trichosanthes cucumerina* 1865
- ***Xanthomonas albilineans,*** *Saccharum officinarum* 12110
- ***Xanthomonas campestris***
  - *Arabidopsis thaliana* 4597
    - gene expression 8822
    - genetics 5786
    - nucleotide sequences 8822
  - *Brassica*
    - gene expression 1959
    - genetics 1959
  - *Capsicum* 3084
  - *Capsicum annuum* 4096
  - *Citrus* 4180, 8448
  - *Cyamopsis tetragonoloba* 596, 2941, 12926
  - *Gossypium hirsutum* 8578
  - *Juglans* 3183
  - *Lycopersicon esculentum* 10679
    - genetics 5184
  - *Lycopersicon pennellii* 10679
  - *Manihot esculenta* 3022-3023, 7180
  - *Phaseolus vulgaris* 9392, 10511
    - germplasm releases 10510
    - linkage 2894
    - restriction fragment length polymorphism 2894
  - *Prunus*
    - plums 3138, 11963
      - combining ability 4135
  - *Prunus persica, in vitro* selection 4144
  - *Prunus salicina,* combining ability 4135
  - *Triticum aestivum* 7794, 10132
  - *Vigna radiata* 5078
  - *Vigna unguiculata* 12920
- ***Xanthomonas oryzae***
  - *Oryza australiensis,* chromosome addition 8016
  - *Oryza officinalis* 2762
  - *Oryza rufipogon* 383, 2762
    - genetics 3850
  - *Oryza sativa* 1603, 1605, 2758, 2760, 2763, 6737, 6997, 8041, 8044-8046, 10387, 12762, 12765-12766
    - chromosome addition 8016
    - gene location 6051
    - genetic transformation 8040
    - genetics 1606, 4900, 6051, 6998, 8042-8043, 8047, 10388, 11607
    - germplasm releases 12763
    - *in vitro* selection 2761
    - linkage 6051
- ***Xanthomonas oryzae* pv. *oryzae,*** *Oryza sativa* 10336
- ***Xanthomonas populi,*** *Populus* 8606
- **Xanthones,** Gentianaceae 8687
- ***Xanthosoma atrovirens,*** variety trials 3035
- ***Xanthosoma brasiliense,*** tissue culture 8297
- ***Xanthosoma caracu,*** variety trials 3035
- ***Xanthosoma robustum,*** tissue culture 8297
- ***Xanthosoma sagittifolium***
  - genetic resources 7188
  - polyploidy 11858
  - tissue culture 8297, 11858
- ***Xanthosoma violaceum,*** variety trials 3035
- ***Xylaria arbuscula,*** *Macadamia* 3185
- **Xylem**
  - *Lycopersicon esculentum*
    - gene expression 13008
    - nucleotide sequences 13008
  - *Vitis vinifera* 5298
- ***Xylopia aromatica***
  - pollination 13285
  - self incompatibility 13285
- ***Xylopia panamensis,*** taxonomy 7460
- ***Xylopia plowmannii,*** taxonomy 5569
- **Y chromosome** (*see* Sex chromosomes)
- ***Yakirra websteri,*** taxonomy 2814
- **Yellows,** *Vitis vinifera* 5297
- **Yield**
  - *Lycopersicon esculentum*
    - combining ability 5178
    - cytoplasmic inheritance 5178
    - genetic variance 5178
- **Yield components**
  - *Abelmoschus esculentus*
    - combining ability 726, 10712
    - heritability 6291
    - heterosis 1884-1885
  - *Abies homolepis,* heritability 9822
  - *Aegilops* 7758
  - *Aegilops* × *Triticum,* nucleocytoplasmic interaction 2461
  - *Allium cepa* 1816
    - genotype environment interaction 9515
  - *Amaranthus* 660
  - *Anacardium occidentale* 6336, 10835
    - heterosis 6338
  - *Arachis hypogaea* 860, 4255
    - artificial selection 9689
    - combining ability 1982, 10879
    - genetic variance 12082
    - genetic variation 1985
    - genotype environment interaction 861-862, 13164
    - heritability 861, 4257, 9690, 10878
    - heterosis 1983
    - induced mutations 7358
    - multivariate analysis 1984, 4258
  - *Artocarpus altilis* 6331
  - *Asclepias speciosa* 963
  - *Asclepias syriaca* 963
  - *Asparagus officinalis,* genotype environment interaction 12988
  - *Avena sativa*
    - artificial selection 3685, 3691, 11400
    - genotype environment interaction 8975, 12639
    - heritability 8973
    - heterosis 1379
    - stability 8975-8976
  - *Boehmeria nivea,* heterosis 964
  - *Brassica campestris*
    - heterosis 1950
    - sarson
      - genetic variance 10844
      - heritability 835
      - induced mutations 1941
    - toria
      - genotype environment interaction 6351
      - stability 10845
    - turnip rape
      - genetic distance 1939
      - heterosis 1939
    - turnips, combining ability 3016
  - *Brassica carinata* 10838
    - combining ability 10843
  - *Brassica juncea*
    - combining ability 834, 1951
    - genetic distance 1939
    - genotype environment interaction 1953
    - heterosis 1939, 1950, 4215
    - reciprocal effects 834
  - *Brassica napus*
    - heterosis 1950
- **Yield components** *cont.*
  - *Brassica napus cont.*
    - rape 10838
      - artificial selection 3191
      - combining ability 5368
      - heterosis 1937, 1952, 5367-5368
  - *Brassica oleracea,* cabbages 10639
  - *Cajanus cajan* 7136-7138
    - artificial selection 576
    - combining ability 1760-1761, 9423
    - genetic variance 1760-1761
    - genotype environment interaction 11775
    - heritability 2934, 9425
    - heterosis 1759, 9424
  - *Capsicum annuum* 1850
    - combining ability 1851, 5195
    - heritability 7237
    - induced mutations 11899
  - *Carica papaya* 10814
  - *Carthamus tinctorius* 12063
    - combining ability 10868, 12064
    - genetic variance 10867, 12064
    - heritability 4238, 10870
    - heterosis 6364, 10869
  - *Carum carvi* 7552
  - *Carya illinoinensis,* heritability 10831
  - *Cassia angustifolia,* heritability 1041
  - *Chamomilla recutita,* induced mutations 1042
  - *Cicer arietinum* 6206, 9417
    - genetic variance 2926
    - genotype environment interaction 568, 6205, 7128
    - heritability 2924
    - heterosis 1746, 1749
    - induced mutations 6202
    - multivariate analysis 1749, 7128
    - sowing date 568
    - stability 6205
  - *Citrullus lanatus,* heritability 10700
  - *Cocos nucifera* 12070
    - combining ability 12071
  - *Coffea canephora*
    - artificial selection 10919
    - heritability 10919
  - *Coleus rotundifolius,* induced mutations 11857
  - *Colocasia esculenta,* multivariate analysis 4022
  - *Corchorus capsularis,* multivariate analysis 2102
  - *Corchorus olitorius* 10983
    - combining ability 957
    - multivariate analysis 2102
    - stability 12169
  - *Crataegus pubescens* 5243
  - *Crocus sativus,* heritability 11106
  - *Crossandra infundibuliformis*
    - heritability 7504
    - induced mutations 2164, 7504
  - *Cucumis sativus,* heritability 11936
  - *Cucurbita maxima*
    - combining ability 4110
    - heterosis 4110
  - *Cuminum cyminum* 1056
  - *Curcuma aromatica,* heterosis 2231
  - *Curcuma longa,* heritability 6609
  - *Dendranthema morifolium* 11067
    - genetic variance 6569
    - heritability 6569
  - *Diospyros kaki*
    - genotype environment interaction 8452
    - heritability 8452
  - *Elaeis guineensis* 12068
    - genotype environment interaction 1972
  - *Eragrostis tef* 463
    - genetic variance 9272
    - heritability 9272
  - *Eucalyptus camaldulensis,* heritability 5526
  - *Fagopyrum esculentum* 2779
  - forest trees, heritability 13260
  - *Fragaria ananassa,* heritability 8421
  - *Glycine gracilis*
    - combining ability 12835, 12841
    - heritability 10473
  - *Glycine max* 6131, 6134, 7084, 7092, 9348, 10452, 10477, 12849

Yield components *cont.*
- *Glycine max cont.*
  - artificial selection 1692, 10483, 11697
  - combining ability 3947, 4993, 8156, 12835, 12841
  - genetic variance 11714, 12857
  - genotype environment interaction 1706, 4981
  - heritability 7085, 10473, 11714, 12854, 12856-12857
  - heterosis 2862, 3947, 6137, 8156
  - induced mutations 7081, 12854
  - multivariate analysis 10482, 12858
  - somaclonal variation 8157
- *Gossypium*
  - combining ability 4329
  - heritability 9745
  - heterosis 946
- *Gossypium arboreum*
  - combining ability 2088-2089, 2091, 4327, 5501, 10973
  - genetic variance 2090-2091, 10974
  - heritability 6519, 10972, 10974
  - heterosis 4325-4326, 10973
  - multivariate analysis 5502, 6519
  - stability 3325
- *Gossypium barbadense*
  - artificial selection 4317
  - combining ability 5499
- *Gossypium herbaceum,* heritability 5498
- *Gossypium hirsutum*
  - combining ability 4331-4332, 5499, 5503, 6517, 8575, 13241
  - genetic markers 6513
  - genetic variance 6517
  - heritability 8575, 13241
  - heterosis 2086, 5500
- *Guizotia abyssinica*
  - artificial selection 4269
  - heritability 10895
- *Helianthus annuus* 5383, 5390-5391, 6362
  - combining ability 1966-1967, 4234, 5387, 6359-6360, 8497, 10862
  - genetic variance 1966, 6359, 9680
  - genotype environment interaction 10861
  - heritability 6359
  - heterosis 1968, 4234, 8497
- *Hevea brasiliensis*
  - combining ability 966
  - genetic resources 12179
  - heritability 12177
  - heterosis 966, 12177
  - multivariate analysis 12178
  - provenance trials 12179
- *Hibiscus cannabinus* 13249
- *Hordeum vulgare* 2429, 10171, 10174, 12598, 12609, 12620
  - gene location 10173
  - genotype environment interaction 7849, 8872
  - heritability 286
  - heterosis 2588
  - induced mutations 4755, 10168
  - mutations 12616
  - somaclonal variation 11385
- *Humulus lupulus* 2240
- *Hyoscyamus muticus,* multivariate analysis 2222
- *Ipomoea batatas* 3028
  - genotype environment interaction 7181
  - heritability 3027
- *Juglans regia* 10829
- *Lablab purpureus* 496
  - multivariate analysis 3992
- *Lagenaria siceraria,* heterosis 4114
- *Lens,* linkage 11767
- *Lens culinaris* 1742, 9410, 11765
  - induced mutations 1745
  - multivariate analysis 12906
- *Leucaena leucocephala* 3933
- *Linum usitatissimum*
  - flax 12168
    - genetic variance 10982
  - linseed, heterosis 3216
- *Lolium perenne* 4916
  - artificial selection 10397

Yield components *cont.*
- *Lotus corniculatus*
  - artificial selection 9310
  - germplasm releases 9310
- *Lupinus albus* 1664, 11683
- *Lupinus angustifolius* 1664
  - multivariate analysis 12820
- *Lupinus luteus* 1664
- *Lycopersicon esculentum* 7222
  - chromosome addition 13009
  - combining ability 3061, 11889
  - genetic variance 11889
  - heritability 4065, 4067
  - heterosis 1838, 3061, 4066, 7230
  - restriction fragment length polymorphism 13009
- *Lycopersicon pennellii*
  - chromosome addition 13009
  - restriction fragment length polymorphism 13009
- *Macrotyloma uniflorum* 9447
  - heritability 2940
- *Medicago sativa* 4939
- *Momordica charantia,* multivariate analysis 7243
- *Moringa oleifera* 11875
  - genetic variance 7372
  - heritability 7372
- *Musa* 13092
- *Nicotiana tabacum* 5457-5458
  - combining ability 933
  - heterosis 933
- *Ocimum,* heterosis 2234
- *Oryza sativa* 413, 437, 1549, 9206, 9229, 10337, 11583
  - artificial selection 1508
  - combining ability 423, 1562-1563, 1565, 1569, 2737, 3835-3836, 8022, 11589, 11592
  - genetic distance 3837
  - genetic variance 1561, 1569, 11591
  - heritability 422, 1567, 1600, 11591-11592
  - heterosis 404, 422-424, 1562, 1565-1566, 3835-3836, 6979, 6982, 8022, 10373-10374, 12728
  - inbreeding depression 422, 424, 10374
  - induced mutations 1567, 6971, 10361
  - multivariate analysis 1560, 1568, 2751, 3837
  - somaclonal variation 1574
  - stability 8034, 11603
- *Panicum coloratum,* heritability 10320
- *Panicum miliaceum,* heritability 6956
- *Papaver somniferum*
  - combining ability 2224
  - genetic variance 2224
  - stability 1051
- *Pennisetum glaucum* 375, 1492, 1495, 1497, 3790
  - artificial selection 6003
  - combining ability 1504, 3787, 6959, 7984, 10327-10329, 11538-11539
  - genetic variance 11538-11539
  - heterosis 1504, 6959, 10327, 10329, 11538
- *Persea americana*
  - genetic variance 9630, 12019
  - heritability 9630, 12019
- *Phaseolus vulgaris* 496, 3958, 7100, 12880
  - artificial selection 2884, 9386
  - genetics 11745
  - heritability 10507
- *Pinus elliottii*
  - artificial selection 4367
  - heritability 4367
- *Pinus oocarpa,* heritability 985
- *Pinus patula,* heritability 13302
- *Pisum sativum* 496, 552, 7117
  - artificial selection 8190
  - genetic distance 8189
  - genetic variance 7113
  - genotype environment interaction 6186
  - heritability 6186
  - heterosis 1739, 8189-8190
  - multivariate analysis 8197
  - stability 7114, 10524, 12891

Yield components *cont.*
- *Plantago ovata,* induced mutations 1040
- *Populus deltoides,* clonal variation 13271
- *Prunus dulcis* 814
  - combining ability 13116
  - genetic variance 13116
- *Prunus persica* 752
  - multivariate analysis 7280
- *Pseudotsuga menziesii*
  - combining ability 7494
  - heritability 7494
- *Ricinus communis*
  - combining ability 4267
  - heritability 9692
- *Saccharum officinarum* 12109
  - artificial selection 4271, 12102
  - genotype environment interaction 12102
  - somaclonal variation 887
- *Saccharum robustum*
  - backcrossing 5415
  - heritability 5415
- *Saccharum spontaneum,* artificial selection 4271
- *Sagittaria trifolia*
  - genetics 12965
  - heritability 12965
- *Schima superba,* heritability 9805
- *Secale cereale,* epistasis 8982
- *Sesamum indicum* 9693
  - combining ability 871, 6428
  - heritability 12097, 13171
  - heterosis 12096
- *Sida hermaphrodita,* heritability 12776
- *Solanum melongena*
  - combining ability 3081, 4080, 6283
  - genetic variance 10690
  - genotype environment interaction 1847
  - heritability 691, 4081
  - heterosis 6283
- *Solanum tuberosum*
  - artificial selection 2946, 10579
  - genetic transformation 11806
  - genotype environment interaction 10591
  - heritability 10579
  - heterosis 9456
  - somaclonal variation 5102
- *Sorghum bicolor* 6914, 6921, 6928-6929, 11528
  - combining ability 3772-3773, 4863, 5992, 6932-6933
  - heterosis 3772, 10308
- *Spinacia oleracea,* combining ability 648
- *Stevia rebaudiana,* heritability 900
- *Trifolium alexandrinum* 482
- *Trifolium repens*
  - artificial selection 6088
  - genetic variance 11674
  - heritability 11674
- triticale
  - combining ability 6873
  - genotype environment interaction 5942, 6873
  - induced mutations 8988
  - somaclonal variation 300
- *Triticum* 7758
- *Triticum aestivum* 1300, 1323, 2470, 4704, 6753, 7798, 8915, 11328, 12538
  - artificial selection 1327, 3621, 4666, 5850, 10106, 11331
  - backcrossing 212
  - chromosome translocation 12495
  - combining ability 205, 219, 4707, 10109-10110, 10121, 11323, 11332, 11346
  - genetic variance 1307, 3624, 6758, 10107, 10109-10110
  - genetics 2490, 8901, 10101
  - genotype environment interaction 1303, 1327, 6645, 8872, 10122, 12553
  - heritability 3621, 4705-4706, 6757-6758, 7765, 10069, 10106, 10108, 10110, 11331
  - heterosis 218, 1305-1306, 2517, 4683, 6757, 7747, 10104, 12531
  - history 5870
  - induced mutations 4684, 5872, 8894

Yield components *cont.*
- *Triticum aestivum cont.*
  - multivariate analysis 1304, 3622-3623, 6756, 7718, 10077
  - pleiotropy 8901, 10101, 12533
  - somaclonal variation 8894, 10111
  - stability 4719
- *Triticum durum* 7798
  - chromosome substitution 12547
  - genotype environment interaction 8872
  - multivariate analysis 3623
  - stability 6766
  - substitution lines 12547
- *Triticum monococcum* 7798
- *Triticum spelta,* heterosis 10104
- *Triticum turgidum*
  - genetic variance 6754
  - heritability 6754
  - stability 6761
- *Vicia ervilia* 9306
- *Vicia faba* 529-531, 5003
  - genetic variance 6151, 10494
  - heritability 136, 6151, 10498
  - heterosis 10494-10496, 11735
  - multivariate analysis 2880, 3957, 6150
  - stability 10497, 10499
- *Vicia radiata* 589
- *Vicia sativa* 9306
- *Vicia villosa* 9306
- *Vigna angularis* 496
- *Vigna mungo*
  - heritability 10557, 11784
  - induced mutations 1766-1767
- *Vigna radiata* 496
  - combining ability 7152
  - genetic variance 590, 1770
  - genotype environment interaction 3989
  - heritability 590, 1769-1770
  - heterosis 2939, 6223, 7151
  - induced mutations 1766
- *Vigna sublobata,* induced mutations 1766
- *Vigna umbellata,* heritability 7153
- *Vigna unguiculata*
  - genetic variance 11779
  - genotype environment interaction 8219, 10551
  - heritability 2936
  - induced mutations 7141
  - multivariate analysis 3980
  - stability 583
- *Zea mays* 1459, 6878
  - artificial selection 3748, 5944, 11418, 11458
  - combining ability 333, 340, 346, 1393, 2676, 3752, 3769, 9118
  - crop density 10285
  - genetic variance 333, 341, 5982, 11465
  - genotype environment interaction 341, 346, 5952, 5975, 10285
  - heritability 5975, 5982, 9118, 11465
  - heterosis 334, 1410, 3752, 4829
  - inbreeding 340
  - sweetcorn, combining ability 1433

Yield correlations
- *Allium cepa* 7194
- *Arachis hypogaea* 859, 863, 1991, 3239, 4257, 8503, 9690, 12083
- *Asparagus officinalis* 5158, 10652
- *Astragalus adsurgens* 9314
- *Avena sativa* 2642, 8973
- *Beta vulgaris,* sugarbeet 10914
- *Brassica campestris,* sarson 835
- *Brassica juncea* 1955, 10846
- *Brassica napus,* rape 1954, 10846
- *Cajanus cajan* 576, 6213-6214, 9425
- *Camellia sinensis* 13195
- *Capsicum annuum* 4091, 6285, 10693
- *Carica papaya* 3179
- *Carthamus tinctorius* 4238, 10870-10871
- *Carya illinoinensis* 10831
- *Cassia angustifolia* 2223, 4476
- *Cicer arietinum* 1750, 2923, 2925, 3976, 5064, 7129, 10535
- *Cinnamomum zeylanicum* 9926
- *Cocos nucifera* 6385, 6388, 6390, 6392
- *Coffea arabica* 2046, 4283
- *Corchorus capsularis* 12157

Yield correlations *cont.*
- *Coriandrum sativum* 11107
- *Crossandra infundibuliformis* 7504
- *Cucumis sativus* 7240, 13041
- *Cucurbita pepo* 11918
- *Echinochloa colonum* 10333
- *Elaeis guineensis* 3223
- *Elettaria cardamomum* 6610
- *Eleusine coracana* 380-381
- *Festuca arundinacea* 11640
- *Fragaria ananassa* 10774
- *Gerbera hybrida* 4427
- *Gladiolus dalenii* 6587
- *Glycine max* 1703, 1705, 4981, 11697, 11714, 12856-12857
  - statistics 11700
- *Gossypium* 3321, 4330
- *Gossypium arboreum* 4328, 10971
- *Gossypium barbadense* 4317
- *Gossypium hirsutum* 947, 2087, 4330, 5497, 5504, 6518
- *Guizotia abyssinica* 10896
- *Helianthus annuus* 5386, 10860
- *Hibiscus cannabinus* 12157
- *Hordeum vulgare* 286, 1364, 12620
- *Ipomoea batatas* 3028
- *Lens culinaris* 9411, 12906
- *Linum usitatissimum,* linseed 4228
- *Lolium perenne* 12788
- *Lycopersicon esculentum* 4068, 11890
- *Manihot esculenta* 7177-7178
- *Medicago lupulina* 12812
- *Oryza sativa* 425, 442, 1564, 2750, 6039, 9223, 11590, 12742
- *Panicum miliaceum* 368, 6956
- *Paullinia cupana* 7311
- *Pennisetum* 3786
- *Pennisetum glaucum* 376, 3785, 3789, 11537
- *Phaseolus vulgaris* 5030, 10507
- *Picea mariana* 5594
- *Pinus elliottii* 4367
- *Pisum sativum* 3969, 6187-6188
- *Prunus,* cherries 5254
- *Pseudotsuga menziesii* 7494
- *Saccharum* 9698
- *Saccharum officinarum* 5416, 8513
- *Salix eriocephala* 2120
- *Schima superba* 9805
- *Sesamum indicum* 6429, 10890-10891, 12097, 13171
- *Sida hermaphrodita* 12776
- *Solanum melongena* 691, 4081, 10689
- *Solanum tuberosum* 6234
- *Sorghum bicolor* 355, 6934, 9170-9171
- *Sorghum halepense* 6934
- *Tanacetum cinerariifolium* 1054
- *Terminalia arjuna* 8747
- *Trifolium repens* 8112
- triticale 5943, 8984, 10212
- *Triticum aestivum* 215-217, 1296, 1298, 3641, 4668, 4706, 5874, 5877, 6755, 7785, 10077, 10108, 12538
- *Vicia ervilia* 9306
- *Vicia faba* 136, 5005, 10498
- *Vicia sativa* 9306
- *Vicia villosa* 9306
- *Vigna mungo* 7150, 9442, 11784
- *Vigna radiata* 1768, 3986-3988, 10558
- *Vigna umbellata* 7153
- *Vigna unguiculata* 582, 6217, 7142, 7144, 8218
- *Zea mays* 1432, 4832, 6890, 6895, 6897, 9166, 11466
  - sweetcorn 9119

Yields
- *Beta vulgaris*
  - sugarbeet
    - combining ability 3271, 9703
    - heterosis 3271, 5426
- *Brassica campestris,* toria, heterosis 1936, 1949
- *Brassica juncea,* combining ability 10849
- *Brassica napus,* rape, heterosis 1949
- *Cajanus cajan,* heterosis 3977
- *Carica papaya,* heterosis 13106
- *Cicer arietinum* 10538
- *Cocos nucifera*
  - artificial selection 6385, 6390-6391
  - stability 1977, 6397

Yields *cont.*
- *Cyamopsis tetragonoloba*
  - genotype environment interaction 1773
  - stability 1773
- *Glycine max*
  - artificial selection 6130
  - stability 9349
- *Gossypium* 12160
- *Gossypium arboreum* 2085
- *Gossypium hirsutum* 2085
  - combining ability 3324
  - heterosis 3324, 5493
- *Helianthus annuus,* combining ability 7344
- heterosis 1111
- *Hordeum vulgare*
  - combining ability 5918
  - genotype environment interaction 11161
  - heterosis 5918
  - induced mutations 4759
- *Hyoscyamus muticus,* genetic variance 12288
- *Lens culinaris,* genotype environment interaction 11161
- *Linum usitatissimum*
  - linseed
    - artificial selection 1961
    - heterosis 1961
- *Lolium multiflorum* 7026
- *Lupinus luteus,* artificial selection 7061
- *Lycopersicon esculentum*
  - combining ability 3057
  - genetic variance 10672
  - heterosis 1832
- *Oryza sativa* 3849, 6981
  - heterosis 1534, 2745
  - stability 11603
- *Pennisetum glaucum*
  - combining ability 3788
  - heterosis 1496, 3788
- *Phaseolus vulgaris* 5029, 12881
  - artificial selection 5030, 6162
- *Pisum sativum*
  - genotype environment interaction 11762
  - heterosis 1741, 11238
  - stability 11762
- *Saccharum officinarum* 12105
- *Solanum sessiliflorum,* heritability 5331
- *Solanum tuberosum*
  - chloroplast genetics 1779
  - genotype environment interaction 2973, 9471
  - stability 9471
- *Sorghum bicolor,* genotype environment interaction 359, 3775
- stability, mathematics 1109
- triticale
  - artificial selection 8984
  - heterosis 8984
- *Triticum aestivum* 2514
  - artificial selection 210, 6750
  - combining ability 10116
  - genotype environment interaction 3631
  - genotype mixtures 7782
  - heterosis 2459, 7746
  - stability 4717, 10071
- *Vicia faba,* artificial selection 2878, 12869
- *Vigna radiata,* stability 591
- *Volvariella volvacea* 6619
- *Zea mays*
  - artificial selection 1396, 4841, 4843, 6875, 12653
  - combining ability 6875
  - heterosis 1408, 11238
  - history 303
  - statistics 5948

Yucca baccata, random amplified polymorphic DNA 11184

Yucca elata, pollination 3373

Yucca schidigera, random amplified polymorphic DNA 11184

Zabrotes subfasciatus, *Phaseolus vulgaris* 542-543, 3964, 7104

Zantedeschia
- chromosome morphology 7523
- interspecific hybridization 9867

***Zantedeschia** cont.*
  nucleocytoplasmic interaction 9867
  restriction fragment length polymorphism 9867
Zantedeschia aethiopica, chromosome morphology 7523
Zantedeschia odorata, chromosome morphology 7523
Zea
  artificial selection 1244
  chloroplast genetics, taxonomy 12689
  chromosome morphology 7948
  chromosome pairing 9066
  evolution 7948
    alcohol dehydrogenase 4835
  gene expression
    development 10264
    inflorescences 10264
    spikelets 10263
  gene location 7949, 9142
  gene mapping, seeds 328
  genetic markers
    morphology 2684
    quantitative traits 2684
  genetic resources 5830, 8998-8999, 9001
  inflorescences 7948
  mutations, spikelets 10281
  natural selection 1244
  nucleocytoplasmic interaction 9066
  population genetics 1244
  quality 6734
  restriction fragment length polymorphism, seeds 328
  silage 6734
  tissue culture 9053
  transposable elements, spikelets 10263
  vegetative propagation 9053
Zea diploperennis
  forage 7946
  interspecific hybridization 9053, 9066
  multiple alleles, alcohol dehydrogenase 4835
  recombination, alcohol dehydrogenase 4835
Zea luxurians
  interspecific hybridization 9053, 9066
  mitochondrial genetics, plasmids 4814
  multiple alleles, alcohol dehydrogenase 4835
  recombination, alcohol dehydrogenase 4835
Zea mays
  abscisic acid 9960
  accessory chromosomes 319, 3736-3737, 4822, 9063
    colour 7909
  acetyl-CoA carboxylase 3771
  aflatoxins 10296
  alachlor 352, 9168
  albumins 7944, 9135-9136
  Alternaria alternata 10680
  altitude 5950
  aluminium 343, 1462
  amino acids 9127, 12679
  amylases 2431
  anatomy 327
  androecium 3744
  aneuploidy 11450
  anther culture 306, 322, 335, 337-338, 1310, 1434, 3577, 6896, 7907, 7939, 9122-9123, 11467
  Arachis hypogaea, crop mixtures 4261, 8503
  archaeology 1457, 11456, 11475-11476, 11480-11488, 11492
  artificial selection 1244, 4809-4810, 7877, 10216, 11420-11421, 12659
    aluminium 3762
    Aspergillus flavus 4846
    Chilo partellus 1469
    cold resistance 1461, 4837, 6900
    colour 10282
    drought resistance 344, 3748, 7952-7954
    endosperm 1441, 7947
    forage 12653
    fungi 4841, 6905
    germination 3751
    growth period 3748, 10269
    heat resistance 6900
    height 9109

***Zea mays** cont.*
  artificial selection *cont.*
    lodging 6905, 10269, 12671
    lysine 7947
    maize streak monogeminivirus 11505
    moisture content 9116
    nutrients 3757
    nutritive value 1441-1443
    oils 11473
    prolificacy 9111
    proteins 7940, 11473
    quality 11473
    seeds 3751
    Setosphaeria turcica 4843
    soil pH 3762
    statistics 9005
    Stenocarpella maydis 4843
    toxic substances 3762
    tryptophan 10280
    yield components 3748, 5944, 11418, 11458
    yields 1396, 4841, 4843, 6875, 12653
  ascorbic acid 11494
  Aspergillus flavus 10296
  asynapsis 2678
  backcrossing 9004
    mathematics 1397
  barley yellow dwarf luteovirus 2697
  benzyladenine 9058
  biotechnology 11415
  birds 7968
  breeding 302, 304, 1391-1392, 1394-1395, 3705, 4808, 5952, 6057, 6876, 10217, 11268, 11279, 11414-11416, 11474
    history 303
    reports 301
    reviews 10218
    statistics 9000
  Busseola fusca 350, 2702
  cadmium 6899, 9145-9146
  carbohydrates 12678
  carotenoids 6897, 11447
  Carpophilus 10301
  cell culture 6896, 9121
  cell division 9058
  centres of diversity 12651
  Cephalosporium 1466
  Cercospora zeae-maydis 2690
  Chilo partellus 2698-2699, 2702-2703, 4853, 4856, 9151, 9162-9163, 11508
  chlorophyll 6897
  chloroplast genetics 309, 5846, 10230-10231, 12468
    chlorophyll 6894
    photosynthesis 331, 11455, 12471
    ribulose-bisphosphate carboxylase 12471
    RNA polymerase 7603
  chromosome aberrations 1412, 10247, 11450
  chromosome banding, techniques 7908
  chromosome breakage 319, 4822, 10248
    transposable elements 9050
  chromosome morphology 7948
  chromosome number 11450
  chromosome pairing 2678-2679, 9061, 9064-9065, 11449
  chromosome translocation 319, 3737, 7910, 9057
    transposable elements 9040
  chromosome transmission, cell division 3734
  climate 11277
  Cochliobolus heterostrophus 1466, 2691, 2693, 4840, 6906-6908, 9151
  cold resistance 1465, 3761, 9149, 10287
    reviews 11495
  Colletotrichum graminicola 10299
  colour 6890
    history 10282
  combining ability 304, 7912
    Chilo partellus 1469
    Cochliobolus heterostrophus 4847
    cold resistance 3759
    Colletotrichum graminicola 346, 4842
    development 329, 10267
    digestibility 1455
    endosperm 5977
    Gibberella zeae 2695

***Zea mays** cont.*
  combining ability *cont.*
    insects 3752
    lodging 1430, 6891
    moisture content 340
    nitrogen 1460
    nutrients 1460
    nutritive value 1443
    Ostrinia nubilalis 7970
    quality 5977
    regenerative ability 10275
    Setosphaeria turcica 9154
    silage 1455
    Striga hermonthica 11515
    tissue culture 10275
    yield components 333, 340, 346, 1393, 2676, 3752, 3769, 9118
    yields 6875
    zinc 9087
  crop density 341, 1410, 3770, 6897, 9109, 11468
    yield components 10285
  crop mixtures, *Cajanus cajan* 342
  crossing over 2678-2679, 3735-3736
    colour 9041
  Curvularia 7962
  cytoplasmic male sterility 1419, 10252
  defoliation 9109
  deletions
    colour 9055
    development 9047
    seedlings 9055
  development 1427, 9059, 9088, 10251, 10254, 11459, 11477, 12678-12679
  Diabrotica virgifera 3770, 12684
  Diatraea grandiosella 2704
  digestibility 1437, 5976, 5978-5979, 9133
  DIMBOA 2704, 10302
  diploidy 9060
  diseases 2688, 6902
  DNA 9059, 9069, 11238, 12668-12669
  domestication 3756
  drought resistance 4836, 5983, 6898, 7950, 9960, 11494
  embryo culture 9083, 9125, 9128
  embryo sac 10251
  endosperm 1436, 4834, 9059, 9133, 9137, 10217
  enzymes 6893
  epistasis
    inflorescences 12672
    sex 12672
  EPTC 352, 9168
  esterases 1419
  ethyl methanesulfonate 2683, 9067
  evolution 3756, 5833, 7948, 10281, 11477-11479
    inflorescences 10263
  experimental design 305, 2667, 11418
  fertilization 1211, 1417, 2680, 2686, 3742, 4825, 6889
  ferulic acid 7957
  flowering 1426
  fluorescence 10280
  forage 1456, 5978-5979, 10222, 11468, 11474
    economics 12652
  fungi 4830, 11497, 11501
  fungicides 10272
  Fusarium 1466, 4839
  gametocides 3740
  gamma radiation 2677, 10274
  gene banks 9030, 10215, 11269
  gene conversion, leaves 9011
  gene dosage
    development 12676
    endosperm 12676
    transposable elements 3727
    zein 9089
  gene expression 4820, 5846, 6886, 10238, 11443, 12656
    abscisic acid 324, 1420, 5974, 7919, 11453
    Agrobacterium tumefaciens 2670
    alcohol dehydrogenase 2199, 5985, 7881, 9148, 10233, 10236, 10288-10289, 10291
    anoxia 5985, 10288-10289

- ***Zea mays*** *cont.*
  - gene expression *cont.*
    - anthocyanins 3712, 3722, 3749-3750, 4439, 5833, 5974, 7882, 10235, 11461
    - auxin binding proteins 312
    - calmodulin binding proteins 4812
    - carotenoids 9115
    - catalase 3764, 4831, 4833, 5984, 9029
    - chlorophyll 5962, 6894
    - *Cochliobolus carbonum* 1467
    - α-coixin 6883
    - cold 9148
    - cold resistance 5984, 10290
    - colour 3747
    - cystatin 313
    - cysteine endopeptidase 11440
    - cytochrome monooxygenase 10240
    - cytochrome-*c* oxidase 314, 9148
    - cytoplasmic male sterility 3746
    - development 2681, 3711, 7882, 7915, 10264
    - DNA binding proteins 3721, 6883
    - drought resistance 1420
    - endosperm 3754, 9096
    - extensin 3711
    - flavonoids 9028
    - flooding 10291
    - flowers 2682
    - germination 7935
    - 1,4-α-glucan branching enzyme 10270
    - glucose-1-phosphate adenylyltransferase 5973
    - β-glucosidase 7916
    - glutamate-ammonia ligase 316
    - glutathione transferase 9168
    - glycoproteins 9200
    - growth regulators 324, 5974
    - heat shock 12466
    - heat shock proteins 7951, 9019-9021
    - hydrogen peroxide 5984
    - hydroxyproline-rich proteins 3711
    - hypoxia 2199, 7955, 10288
    - inflorescences 2681, 10264
    - isoenzymes 9099
    - light 3750
    - ligules 7920
    - luciferase 10236
    - methyltransferases 325
    - mutations
      - endosperm 9084
      - glucose-1-phosphate adenylyltransferase 9084
    - NAD(P)H-plastoquinone-oxidoreductase 12465
    - organelles 9096
    - pathogenesis-related proteins 11500
    - peroxidases 9099
    - phlobaphene 9028
    - phosphoenolpyruvate carboxylase 12466, 12674
    - phosphoproteins 7919
    - photosynthesis 331, 5962, 12471
    - plant embryos 5960, 7917, 7919, 7935, 11453
    - pollen 3743, 5834, 11430
    - pollen germination 4824
    - polygalacturonase 2673
    - polyubiquitin 9022
    - profilins 310
    - proteinase inhibitors 11500
    - pyruvate,orthophosphate dikinase 10273
    - ribulose-bisphosphate carboxylase 12466, 12471, 12674
    - roots 325
    - seedlings 5984
    - seeds 5974, 9090-9091, 10256, 11461
    - spikelets 10263
    - stress 3743, 5986
    - sucrose synthase 10291
    - superoxide dismutase 3764, 4831, 10237
    - tissue culture 4833
    - translocators 4816
    - transposable elements 3054, 3718, 3729, 4044, 4821, 5965, 7888, 7891, 7898, 7904, 9049, 11430, 13366

- ***Zea mays*** *cont.*
  - gene expression *cont.*
    - tubulin 3708, 3710, 3719
    - β-tubulin 5954
    - ubiquitin 1402, 9023-9024
    - variegation 9090-9091, 10256
    - vivipary 5974, 11453
    - zein 3715, 3754, 5971, 9089, 9131, 10271
  - gene location 7892-7893, 7949, 9031, 9142
    - carotenoids 9042
    - cytoplasmic male sterility 12670
    - development 332, 9085-9086
    - endosperm 7903, 9079, 9081, 9132
    - growth period 5969
    - height 5969, 10259
    - inflorescences 7926, 7934
    - leaves 7901, 7905, 7926, 9038, 9086, 9094
    - male sterility 9074
    - morphology 3756
    - seedlings 9079
    - seeds 9085
    - *Setosphaeria turcica* 11504
    - stems 9086
    - transposable elements 9040
    - ubiquitin 9044
  - gene mapping 3572, 3709, 7879-7880, 7900, 9014, 9026, 10228, 10230, 10244, 11498, 12662
    - development 9046
    - *Gibberella zeae* 9152
    - height 10260-10261
    - pollen germination 9071
    - proteins 7942
    - quantitative traits 11442
    - seeds 328
    - *Setosphaeria turcica* 5988
    - starch 7942
  - genetic distance 3713, 9018, 11435, 11489
    - isoenzymes 4837
  - genetic engineering 4820, 6884, 10238, 11443
    - alcohol dehydrogenase 10233
    - anthocyanins 10239
    - dihydrokaempferol 4-reductase 4441, 9881
    - DNA binding proteins 12658
    - endosperm 7889
    - 1,4-α-glucan branching enzyme 10270
    - glucose-1-phosphate adenylyltransferase 3724
    - phosphoenolpyruvate carboxylase 12674
    - pyruvate,orthophosphate dikinase 10273
    - reviews 4813
    - ribulose-bisphosphate carboxylase 12674
    - translocators 4816
    - transposable elements 919, 3054, 3505, 3718, 4044, 4821, 5170, 7888, 7891, 7898, 7904, 13366
    - tubulin 3710
    - ubiquitin 1402
    - zein 3715, 12661
  - genetic markers
    - cytoplasmic male sterility 9075
    - height 9037
    - isoenzymes, reviews 145
    - morphology 2684
    - *Ostrinia nubilalis* 9037
    - quantitative traits 2684, 9051
    - transposable elements 3730
  - genetic resources 134-135, 1225, 2668, 5829, 5946, 5950-5952, 6057, 6878, 6890, 9002, 9006, 11269, 11417, 12651
    - catalogues 5947
  - genetic transformation 306, 1401, 2424-2425, 2672, 3723, 3725, 4819, 5955, 5957, 7600, 7883, 10061, 12656-12657
    - *Agrobacterium tumefaciens* 2670
    - alcohol dehydrogenase 5985
    - anoxia 5985
    - anthocyanins 7882, 10239
    - bilanafos 9167

- ***Zea mays*** *cont.*
  - genetic transformation *cont.*
    - *Cochliobolus carbonum* 7956
    - development 7882
    - glucose-1-phosphate adenylyltransferase 3724
    - glufosinate 5991, 9167, 10058
    - glufosinate acetyltransferase 7688
    - glycoproteins 9200
    - herbicides 5991, 9167
    - kanamycin 10227
    - maize streak monogeminivirus 4849, 5990
    - phosphinothricin acetyltransferase 2705
    - zein 12661
  - genetic variance
    - *Colletotrichum graminicola* 4842
    - development 10267
    - drought resistance 3760
    - *Erwinia stewartii* 4838
    - growth period 11452
    - height 11452
    - regenerative ability 10275
    - soil pH 5982
    - *Sphacelotheca reiliana* 6903
    - tissue culture 10275
    - yield components 333, 341, 5982, 11465
  - genetic variation, isoenzymes 11464, 11478
  - genetics 10215, 10244
    - anthers 11451
    - anthocyanins 2675, 9101-9103
    - books 3457
    - *Busseola fusca* 3769
    - carotenoids 9115, 10278
    - cell division 3734
    - *Cercospora zeae-maydis* 9158
    - *Cochliobolus carbonum* 1467
    - *Cochliobolus heterostrophus* 9153
    - cold resistance 1463, 3763
    - *Colletotrichum graminicola* 7958
    - colour 7922, 9033, 9035, 9110, 10257, 10282
    - cytoplasmic male sterility 9076, 10250
    - desynapsis 2679
    - development 9047, 9085-9086, 9104
    - digestibility 12680-12681
    - diseases 11226
    - endosperm 7922-7923, 9080, 9082, 9138, 10257
    - EPTC 1470
    - flavonoids 10262
    - gibberellic acid 9098
    - β-glucosidase 7921
    - glumes 9095, 11451
    - glutamate dehydrogenase 3763
    - glutathione transferase 352
    - growth regulators 9098
    - height 9095, 9098, 10258, 12675
    - herbicides 1470
    - history 3728
    - hydroxycinnamic acid 9161
    - inflorescences 12672-12673
    - kanamycin 10227
    - leaves 9086, 9094, 9097
    - lysine 339, 1447, 10278
    - malate dehydrogenase 3763
    - male sterility 7913
    - maysin 12685
    - meiosis 12667
    - morphology 3756
    - nomenclature 10245
    - phosphogluconate dehydrogenase 3763
    - phytoene synthase 9043
    - plant composition 12681
    - pollen 1463
    - *Puccinia sorghi* 2696, 3768
    - quality 339, 1454, 10278
    - seeds 9085, 9110, 10256
    - self incompatibility 1415
    - *Setosphaeria turcica* 4845, 12682
    - sex 12672
    - silage 12681
    - *Sitophilus zeamais* 9161
    - starch 1454, 9138, 11463
    - stems 9086
    - *Striga hermonthica* 11515

Zea mays *cont.*
- genetics *cont.*
  - transposable elements 9045
  - tryptophan 10280
  - variegation 10256
  - zein 1447, 7918, 9132
- genomes 9062, 9064
- genotype environment interaction 9010
  - *Colletotrichum graminicola* 346
  - forage 11469
  - quantitative traits 9051
  - statistics 3758, 9005
  - yield components 341, 346, 5952, 5975, 10285
- genotype mixtures 1459, 10303
- geographical races 1458, 11464, 11478, 11490-11491, 12651
- germination 4828, 5968, 9083
- germplasm releases
  - *Aspergillus flavus* 347
  - *Chilo partellus* 9165
  - cytoplasmic male sterility 9070
  - growth period 9105
  - hybrid seed production 9052
  - *Spodoptera frugiperda* 11513
- *Gibberella* 4839, 7963
- *Gibberella fujikuroi* 3766, 6909, 9155-9157, 10294, 10297, 10680
- *Gibberella zeae* 5987, 6909, 7957, 7961, 11499
- globulins 7944, 9135-9136
- glutathione reductase 5983
- growth period 1392, 4830, 5972, 6877, 11423
- growth regulators 9058, 9960
- haploidy 1310, 1414, 3577, 3725, 4823, 9068
- height 305, 9113
- *Helicoverpa zea* 2700, 9164, 12685
- herbicides 352, 3771, 7971-7972, 9168
- heritability
  - drought resistance 3760
  - *Erwinia stewartii* 4838
  - photosynthesis 344
  - quantitative traits 9051
  - seeds 1429
  - soil pH 5982
  - yield components 5975, 5982, 9118, 11465
- heterochromatin 2678, 7912
- heterosis 1405, 1409, 5967, 6879, 6887, 11448
  - *Chilo partellus* 9166
  - chloroplasts 10268
  - DNA 320
  - drought resistance 1111
  - gibberellins 148
  - growth regulators 148
  - insects 3752
  - leaves 1425
  - mathematics 1406
  - nutrients 4829
  - *Ostrinia nubilalis* 7970
  - photosynthesis 10268
  - plant embryos 1431
  - *Setosphaeria turcica* 9154
  - yield components 334, 1410, 3752, 4829
  - yields 1408, 11238
- hybrid seed production 1231, 1407, 1426, 3740, 4808, 9112, 10216, 10252, 11446
- hybrid varieties 1407, 2423, 4808, 5953, 10053, 10217, 10221, 10224, 11417, 11423-11424, 12655
  - reviews 1390
- hybridization 11447
- hydroxamic acids 12684
- immunology, NAD(P)H-plastoquinone-oxidoreductase 12465
- *in vitro* culture 162, 1211, 1417, 1435, 2680, 2686, 6889
  - books 3457
- *in vitro* selection
  - acetochlor 12686
  - alachlor 12687
  - cerulenin 9078
  - cytoplasmic male sterility 10250
  - drought resistance 6901
  - EPTC 1470
  - fatty acids 9078

Zea mays *cont.*
- *in vitro* selection *cont.*
  - glufosinate 5991
  - heat resistance 1464
  - herbicides 1470, 5991, 12686-12687
  - nitrate reductase 5981
  - pollen 12686
  - salinity 9147
  - temperature 1464
- inbreeding 5946, 5951, 9003
  - mathematics 5945
  - moisture content 340
  - reviews 1390
  - yield components 340
- inbreeding depression 11419
- induced mutations 2677, 11447
  - cell division 9067
  - DNA 9067
  - endosperm 9067
  - inflorescences 7926
  - leaves 7926
  - 5-methyltryptophan 2683
- inflorescences 7948, 11456-11457, 11476, 11478
- infrared radiation 1427
- insects 6902
- interspecific hybridization 1409, 2684, 9053, 9064, 9066
- irrigation 9010
- isoenzymes 9112
- leaves 9088
- lethals, colour 9041
- light 327, 1427, 5962, 11447
- linkage 3571, 7900, 9031, 10243
  - anthers 11451
  - colour 9041
  - *Gibberella zeae* 3767
  - glumes 11451
  - height 7936
  - leaves 9093
  - proteins 7940
  - quantitative traits 7936
  - *Setosphaeria turcica* 10293
- lipids 6911, 9078
- lodging 10299, 12677
- low input agriculture 10286
- lysine 340, 1436, 1448-1451, 4839, 11501
- *Macrophomina phaseolina* 1466, 2418, 9155
- maize chlorotic dwarf ribotungrovirus 9159
- maize dwarf mosaic potyvirus 4850-4851, 11497
- maize mosaic nucleorhabdovirus 348, 11497
- maize streak monogeminivirus 348, 9160, 11497
- malate dehydrogenase 10255
- male sterility 3734, 11451
- maternal effects
  - photosynthesis 1423
  - zein 10271
- mechanical damage 4828
- meiosis 1412, 9065, 10247, 10251, 11449
- *Melanoplus differentialis* 349
- *Meloidogyne javanica* 4852
- minerals 1424
- mitochondrial genetics 315, 3492, 5959, 7896, 9027, 9979, 10266
  - adenosinetriphosphatase 311
  - cytochrome-*c* oxidase 314
  - cytoplasmic male sterility 311, 1418, 3741, 3745
  - maturase 10232
  - NADH dehydrogenase 9977, 10232
  - NADH dehydrogenase (ubiquinone) 7886
- modifiers
  - endosperm 3754
  - lysine 339, 1447
  - maysin 12685
  - quality 339
  - zein 1447, 3754, 9130
- molecular genetics 2685, 6885, 7884, 9012, 9025, 11437, 12659
  - accessory chromosomes 3739
  - alcohol dehydrogenase 2199, 7881
  - α-amylase 6882
  - amylose 3720

Zea mays *cont.*
- molecular genetics *cont.*
  - anthocyanins 2675, 3712, 3717, 5961, 10235
  - auxin binding proteins 312
  - books 3457
  - catalase 9029
  - cold resistance 10290
  - colour 7922
  - development 7915
  - DNA 7613
  - DNA binding proteins 4815
  - endosperm 7922
  - flavonoids 12669
  - flowers 2682
  - gibberellic acid 7897
  - 1,4-α-glucan branching enzyme 3720
  - glucose-1-phosphate adenylyltransferase 5973
  - glutamate-ammonia ligase 316
  - glutelins 9140
  - growth regulators 7897
  - heat shock proteins 9019, 9021
  - heterosis 2428
  - hypoxia 2199
  - leaves 5970, 9011
  - lysine 3753
  - mercuric chloride 5986
  - methyltransferases 325
  - mutator genes 12664
  - polygalacturonase 308
  - polyubiquitin 9022
  - profilins 310, 5799
  - proteins 1716
  - roots 325
  - seeds 1428, 7613
  - starch 307
  - toxic substances 5986
  - transposable elements 1403, 3731, 7887, 7894, 9048, 11428, 11441, 12664
  - ubiquitin 9023
  - zein 3753, 5971
- multiple alleles
  - alcohol dehydrogenase 4835
  - anthocyanins 3750
  - colour 7909
  - height 9037
  - light 3750
  - *Ostrinia nubilalis* 9037
- multivariate analysis
  - germination 3751
  - morphology 1458
  - seeds 3751
- mutagens 2683, 9067
- mutations 2678, 11498
  - abscisic acid 146, 5974, 10253, 11453
  - alcohol dehydrogenase 10241, 10289
  - amylose 3720
  - anoxia 10289
  - anthocyanins 2675, 3717, 5974, 7932, 11461
  - carotenoids 10278
  - cell division 110
  - chlorophyll 6894
  - chromosome morphology 9056
  - chromosome pairing 9056
  - colour 7929, 9032, 9110, 10249, 10266, 11445
  - cytoplasm 6888
  - databases 11444
  - desynapsis 2679, 3733
  - development 332, 7928, 9085-9086, 11454
  - digestibility 10277
  - DIMBOA 10265
  - diseases 11226
  - DNA binding proteins 4815
  - endosperm 1422, 1438-1441, 1444-1446, 5977, 7902, 7941, 9079-9080, 9082, 9156, 11460
  - flowers 1421
  - 1,4-α-glucan branching enzyme 3720
  - glumes 9092
  - growth regulators 144, 146, 1422, 5974
  - gynoecium 9073
  - height 10260-10261, 12675
  - hydroxymethylglutaryl-CoA reductase 10253

Zea mays *cont.*
- mutations *cont.*
  - IAA 1422
  - inflorescences 7934, 9077, 12672
  - leaves 326, 5970, 7899, 9038, 9054, 9086, 9093, 10266
  - lignin 10277
  - ligules 7920, 7924-7925
  - lysine 330, 1444, 3753, 10278
  - male sterility 9073
  - meiosis 1411, 1413, 3738, 7911, 12667
  - morphology 3756
  - nutritive value 1439, 1441
  - photosynthesis 7930-7931, 10937, 11455, 11462
  - plant disorders 7966-7967
  - plant embryos 7928, 11453, 11460
  - *Puccinia sorghi* 1468
  - quality 1454, 5977, 10278
  - seedlings 7927, 9079, 11454
  - seeds 1428, 5974, 7927, 9085, 9090, 9110, 11445, 11461
  - sex 1421, 12672
  - starch 1454, 11463
  - stems 9086
  - synaptonemal complex 3733
  - threonine 330
  - transposable elements 12665
  - tropisms 147
  - variegation 9090
  - vivipary 5974, 7917, 9083, 10253, 11453
  - zein 1445-1446, 3753, 7941, 9131
- mycotoxins 10297
- *Mythimna separata* 11506
- natural selection 1244
- nicosulfuron 7972
- nitrogen 6893, 10283, 10286, 11459, 11493
- non-disjunction, plant embryos 11450
- nuclei 321, 11238
- nucleotide sequences
  - acetyl-CoA carboxylase 4818
  - adenosinetriphosphatase 12660
  - allergens 5956
  - α-amylase 11432
  - anthocyanins 3722, 3749, 10235
  - calmodulin 10234
  - calmodulin binding proteins 4812
  - chalcone isomerase 3716
  - chlorophyll *a/b* binding protein 4817
  - cystatin 313
  - cysteine endopeptidase 11440
  - cytochrome monooxygenase 10240
  - DNA binding proteins 11429
  - heat shock proteins 7951
  - hypoxia 7955
  - NADH dehydrogenase (ubiquinone) 7886
  - pollen 3714, 11430
  - polygalacturonase 2673
  - proteinase inhibitors 11500
  - sucrose synthase 7885
  - superoxide dismutase 10237
  - taxonomy 11489
  - translocators 4816
  - transposable elements 11430
  - tubulin 3708, 3719
  - β-tubulin 5954
- nutrients 6893, 10283-10284, 10286, 11459, 11493
- nutritive value 1440, 1448-1451, 5978-5979, 9133, 11471
  - history 1438
- oils 11470, 11501
- *Ostrinia nubilalis* 10302, 11509
- paternal effects, photosynthesis 1423
- penetrance, leaves 7899
- *Peregrinus maidis* 348
- perennial habit 9107
- *Peronosclerospora sorghi* 12683
- peroxidases 1419
- *Phaseolus vulgaris,* crop mixtures 2891
- phosphoenolpyruvate carboxylase 10255
- phosphoprotein phosphatase 5962
- phosphorus 10284, 11493
- photoperiodism 5972
- photosynthesis 10276
- plant composition 11472

Zea mays *cont.*
- plant introduction 1457, 11417, 11482, 11485, 11487, 11492
  - history 9143
- pleiotropy
  - abscisic acid 5974
  - anthocyanins 5974
  - glumes 9095
  - growth regulators 5974
  - height 9095
  - leaves 9150
  - *Ostrinia nubilalis* 9150
  - *Puccinia sorghi* 9150
  - seeds 5974
  - vivipary 5974
- pollen 323, 1416, 1434, 2677, 11447, 11451, 12687
- pollen competition 1236, 9071
- pollen germination 1416, 1465
- pollination 9072, 9141, 11447
- polymerase chain reaction 317, 3709
  - archaeology 11436
  - cytoplasm 6888
  - DNA 7613
  - endosperm 9139
  - seeds 7613
- polymorphism 1405
  - photosynthesis 932
- polyploidy 321, 323, 1416
- polysaccharides 4834
- population genetics 1244
  - statistics 12666
- *Prostephanus truncatus* 4855
- proteins 7933, 9137, 11501
- protoplast fusion 2680, 2686
- protoplasts 3725, 5955, 6896
- *Pythium aphanidermatum* 5987
- *Pythium inflatum* 11499
- quality 340, 351, 1450-1452, 2677, 5980, 6734, 11491, 11501, 12474
- random amplified polymorphic DNA 7890, 9015-9017, 10226, 11434
  - *Gibberella zeae* 3767
- reciprocal effects, lodging 6891
- recombination 2678, 10243
  - alcohol dehydrogenase 4835
- regenerative ability 10276
- respiration 10254
- restriction fragment length polymorphism 154, 2671, 3571, 3713, 5948, 5958, 7880, 9014, 9018, 9026, 10228, 11431, 11435, 11438-11439, 12662
  - anther culture 1414
  - *Cochliobolus heterostrophus* 10292
  - cytoplasmic male sterility 9076, 12670
  - development 9046
  - endosperm 7945, 9132
  - genetic distance 11433
  - *Gibberella zeae* 3767
  - growth period 5969
  - haploidy 7907
  - height 5969, 7936, 10259
  - heterosis 10246
  - maize dwarf mosaic potyvirus 10292
  - male sterility 9074
  - nomenclature 9013
  - oils 11473
  - pollen germination 9071
  - proteins 7942, 11473
  - quality 7943, 11473
  - quantitative traits 7936, 9051
  - seeds 328
  - *Setosphaeria turcica* 5988, 7964, 10293, 11504
  - starch 7942
  - taxonomy 11489
  - techniques 10229
  - transposable elements 12665
  - wheat streak mosaic rymovirus 10292
  - zein 9131
- roots 10284, 12677
- salinity 11496
- *Scherophthora rayssiae* 9151
- seed aging 5968
- seed moisture 4827
- seed testing 4827-4828
- seedlings 9144
- seeds 5980, 6890, 9114, 10294, 11459, 11476
  - texture 6877

Zea mays *cont.*
- selection 6879
- self pollination 4823
- *Sesamia cretica* 10303
- *Sesamia nonagrioides* 11512
- *Setosphaeria rostrata* 1466
- *Setosphaeria turcica* 2689, 2692, 3765, 4844, 4848, 6906-6907, 7959-7960, 10295
- sex 11477
- silage 1400, 1437, 3707, 6058-6059, 6734, 11471
- sister chromatid exchange 3735
- *Sitophilus zeamais* 351, 10304, 11507
- soil toxicity 1462
- somaclonal variation 2685, 7939
  - esterases 9100
  - peroxidases 9100
  - polyploidy 322
- source sink relations 9117, 11493
- sowing date 341, 1461
- *Sphacelotheca reiliana* 345
- *Spodoptera frugiperda* 4854, 6910-6911, 11510
- *Sporisorium reilianum* 11502
- stability
  - *Setosphaeria turcica* 6904
  - statistics 4546
- starch 1453
- stems 6909, 12677
- *Stenocarpella maydis* 2694, 10298-10299
- sterility 2678
- storage, pollen 137, 7914, 9007, 10219
- stress 5983, 7950, 9144, 11277
- *Striga* 6902
- sugarcane mosaic potyvirus 4850, 11497
- sugars 11472
- synaptonemal complex 2679
- synthetic varieties 5945
- taxonomy 11490
- temperature 1465, 5972
- *Tetranychus cinnabarinus* 11511
- thidiazuron 9058
- tillering 9113
- tissue culture 336, 6896, 7937-7938, 9078, 9120, 9124, 9126-9129, 10274
- toxic substances 343, 6899, 9145-9146
- translocation 9145
- transposable elements 317-318, 1404, 2674, 5964, 5966, 7895, 7897, 7899, 7902, 7930, 9011, 9034-9036, 9039, 9054, 9067, 9076, 10242, 10261, 11443, 11498, 12663
  - adenosinetriphosphatase 12660
  - amylose 3720
  - anthocyanins 9101
  - colour 9032, 10249, 11445
  - 1,4-α-glucan branching enzyme 3720
  - ovules 3726
  - pollen 3726
  - *Puccinia sorghi* 1468, 3768
  - reviews 5963
  - seeds 11445
  - spikelets 10263
  - zein 10225
- ultrastructure 10251
- ultraviolet radiation 9069, 12669
- variety classification 145, 9112, 11271, 11457, 11486
- variety trials 301, 305, 1391, 1398-1399, 2669, 3706-3707, 4811, 6877, 6880-6881, 7583, 7878, 9006, 9008, 9010, 11422
  - quality 9141
- viruses 11497
- water balance 6892, 11494
- yield components 1459, 6878
- yield correlations 1432, 4832, 6890, 6895, 6897, 9166, 11466
- yields
  - history 303
  - statistics 5948
- baby corn, quality 10279
- babycorn
  - endosperm 3755
  - inflorescences 3755
  - quality 3755
- popcorn
  - artificial selection, *Setosphaeria turcica* 11503

- ***Zea mays*** *cont.*
  - popcorn *cont.*
    - *Helicoverpa zea* 2701
    - *Ostrinia nubilalis* 2701
    - quality 9134
  - sweetcorn
    - artificial selection, *Puccinia sorghi* 8931
    - *Cochliobolus heterostrophus* 10300
    - combining ability, yield components 1433
    - endosperm 4826
    - *Erwinia stewartii* 2687
    - genetic transformation
      - maize chlorotic mottle machlovirus 5989
      - maize dwarf mosaic potyvirus 5989
    - genetics, endosperm 9108
    - germination 4826
    - germplasm releases, *Ostrinia nubilalis* 11514
    - growth period 9108
    - inbreeding 5949
    - isoenzymes 5949
    - lodging 12677
    - morphology 5949
    - mutations, endosperm 9117
    - *Puccinia sorghi* 2687, 7965
    - respiration 4826
    - restriction fragment length polymorphism 5949
    - roots 12677
    - senescence 9106
    - *Setosphaeria turcica* 2687
    - sowing date 9106
    - stems 12677
    - variety trials 9009, 10220, 12654
    - yield correlations 9119
  - varieties 134, 301, 1400, 5953, 10222, 11426-11427
    - Chollima Hybrid-1 4648
    - Chollima Hybrid-3 4648
    - Dan Jiao-83 12655
    - Danyu-13 10223
    - Ji Cheng Dan-3 11423
    - Jiu Dan-10 10053
    - Ken Nian-1 11424
    - Ken Nian-2 11424
    - Khar'kovskiĭ 221SV 2423
    - Nart 170SV 2423
    - Porumben' 350KASV 10217
    - Porumben' 399KASV 10217
    - Povolzhskiĭ 89MV 2423
    - Ross 144SV 2423
    - Su Yu-1 10221
    - Ya Yu-2 11425
- ***Zea mexicana***
  - barley yellow dwarf luteovirus 2697
  - genetic markers
    - morphology 2684
    - quantitative traits 2684
  - heterosis 1409
  - interspecific hybridization 1409, 2684
- ***Zea parviglumis***
  - domestication 3756
  - evolution 3756
  - gene location, morphology 3756
  - genetics, morphology 3756
  - interspecific hybridization 2684, 9053, 9066
  - mutations, morphology 3756
- ***Zea perennis***
  - chromosome pairing 9064
  - genomes 9064
  - interspecific hybridization 9064
- ***Zea* × *Tripsacum*,** intergeneric hybridization 3732, 7906, 7946, 7969
- ***Zea* × *Triticum*,** intergeneric hybridization 3600, 3610, 7740, 7744
- **Zein**
  - *Zea mays*
    - gene dosage 9089
    - gene expression 3715, 3754, 5971, 9089, 9131, 10271
    - genetic engineering 3715, 12661
    - genetic transformation 12661
    - genetics 1447, 7918, 9132
    - maternal effects 10271
    - modifiers 1447, 3754, 9130
    - molecular genetics 3753, 5971
- **Zein** *cont.*
  - *Zea mays cont.*
    - mutations 1445-1446, 3753, 7941, 9131
    - restriction fragment length polymorphism 9131
    - transposable elements 10225
- ***Zeiraphera canadensis*, *Picea glauca*** 2146
- **Zinc**
  - *Glycine max* 1712
  - *Malus pumila* 7252
  - *Silene vulgaris* 6576
  - *Triticum aestivum* 1322, 8913
  - *Zea mays,* combining ability 9087
- ***Zingeria*,** chromosome morphology 2810
- ***Zingiber***
  - pollen 6612
  - taxonomy 6612
- ***Zingiber officinale***
  - chromosome aberrations 9924
  - chromosome pairing 9924
  - development 2232
  - gamma radiation 2232, 3431
  - induced mutations 2230
    - chlorophyll 3431
  - morphology 2232
  - polyploidy 9924
  - tissue culture 7551
  - variety trials 9923
  - varieties, Suravi 2230
- **Zingiberales**
  - chloroplast genetics
    - evolution 2401
    - ribulose-bisphosphate carboxylase 2401
    - taxonomy 2401
- **Zingiberene**
  - *Lycopersicon esculentum,* genetics 6282
  - *Lycopersicon hirsutum,* genetics 6282
- ***Zinnia elegans***
  - cell culture 4416
  - gamma radiation 7513
  - gene expression 4416
    - cell culture 4417
  - induced mutations
    - flowers 7513
    - morphology 7513
  - molecular genetics 4416
    - cell culture 4417
  - proteins 7513
- ***Zinnia marylandica*,** somaclonal variation 4429
- ***Zinowiewia australis*,** taxonomy 11013
- ***Zinowiewia madsenii*,** taxonomy 11013
- ***Zizania aquatica***
  - heterozygosity
    - isoenzymes 3868
    - latitude 3868
  - latitude 3868
  - molecular genetics
    - evolution 1645
    - taxonomy 1645
  - stability 3868
- ***Zizania caduciflora*,** genetic resources 7015
- ***Zizania palustris***
  - flooding 8058
  - heterozygosity
    - isoenzymes 3868
    - latitude 3868
  - isoenzymes 8058
  - latitude 3868
  - stability 3868
- ***Zizania texana***
  - molecular genetics
    - evolution 1645
    - taxonomy 1645
- ***Ziziphus mauritiana***
  - breeding 4192
  - hybridization 10824
  - pollination 10824
  - quality 6333
  - sexual reproduction 4192
  - variety trials 5330
- ***Ziziphus sativa*,** varieties, Sihong Dazao 10821
- ***Zollernia*,** taxonomy 7463
- ***Zollernia magnifica*,** taxonomy 7463
- ***Zollernia modesta*,** taxonomy 7463
- ***Zoysia*,** lawns and turf 5627
- ***Zoysia japonica***
  - chloroplast genetics, taxonomy 8062
- ***Zoysia japonica*** *cont.*
  - restriction fragment length polymorphism, taxonomy 8062
- **Zucchini yellow mosaic potyvirus**
  - *Citrullus lanatus* 8371
  - *Cucumis melo*
    - gene expression 3090
    - genetic transformation 3090
  - *Cucumis sativus* 5205
  - *Cucurbita* 5205
  - *Cucurbita moschata,* genetics 4111
  - *Nicotiana tabacum*
    - gene expression 3090
    - genetic transformation 3090

LIST OF SERIALS ABSTRACTED

Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1994 for this journal.

Many other serials were scanned during 1994 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition.* The publication includes ISSNs and publishers' addresses.

ACIAR Food Legume Newsletter
Acta Agriculturae Boreali-Sinica
Acta Agriculturae Nucleatae Sinica
Acta Agriculturae Scandinavica. Section B, Soil and Plant Science
Acta Agriculturae Shanghai
Acta Agriculturae Universitatis Henanensis
Acta Agriculturae Universitatis Pekinensis
Acta Agrobotanica
Acta Agronomica Hungarica
Acta Agronomica Óváriensis
Acta Agronomica Sinica
Acta Alimentaria Polonica
Acta Biotheoretica
Acta Botanica Brasilica
Acta Botanica Gallica
Acta Botanica Hungarica
Acta Botanica Malacitana
Acta Botánica Mexicana
Acta Botanica Neerlandica
Acta Botanica Sinica
Acta Botanica Yunnanica
Acta Entomologica Sinica
Acta Facultatis Rerum Naturalium Universitatis Comenianae, Genetica et Biologia Molecularis
Acta Genetica Sinica
Acta Horticulturae
Acta Horticulturae Sinica
Acta Oecologica
Acta Physiologiae Plantarum
Acta Phytopathologica Sinica
Acta Phytophylacica Sinica
Acta Phytophysiologica Sinica
Acta Phytotaxonomica Sinica
Acta Scientiarum Naturalium Universitatis Sunyatseni
Acta Societatis Botanicorum Poloniae
Acta Universitatis Agriculturalis Boreali-Occidentalis
Activities - Simón I. Patiño & Pro Bolivia Foundations
Actualidades Regional - Instituto Colombiano Agropecuario
Advances in Agronomy
Advances in Horticultural Science
Advances in Plant Sciences
African Crop Science Journal
African Entomology
African Journal of Mycology and Biotechnology
African Journal of Range & Forage Science
Agrekon
Agribusiness Worldwide
Agricoltura Mediterranea
Agricoltura Ricerca
Agricultura Técnica (Santiago)
Agricultura, Revista Agropecuaria
Agricultural Economics
Agricultural Outlook
Agricultural Reviews (Karnal)
Agricultural Science Digest (Karnal)
Agricultural Science in Finland
Agricultural Systems
Agriculture and Horticulture
Agriculture in Northern Ireland
Agriculture, Ecosystems & Environment
Agrivita
Agro Food Industry Hi-Tech
Agro-Ciencia
Agrochimica
Agroforestry Systems
Agrokhimiya
Agronomía Colombiana
Agronomía Tropical (Maracay)
Agronômico
Agronomie
Agronomie Tropicale
Agronomist
Agronomy and Soils Departmental Series - Alabama Agricultural Experiment Station
Agronomy Journal
Agropecuária Catarinense
Agrotrópica
AIAS Occasional Publication
Al Awamia
Alexandria Journal of Agricultural Research
All of Us
Allgemeine Forst- und Jagdzeitung
Aloe
Ambio
American Fern Journal
American Journal of Botany
American Journal of Clinical Nutrition
American Journal of Enology and Viticulture
American Journal of Human Genetics
American Naturalist
American Orchid Society Bulletin
American Potato Journal
American Rhododendron Society Journal
Amino Acids
Anadolu
Anais da Sociedade Entomológica do Brasil
Analele Institutului de Cercetări pentru Cereale şi Plante Tehnice, Fundulea
Analytical Biochemistry
Angewandte Botanik
Animal Feed Science and Technology
Animal Production
Annales Botanici Fennici
Annales de Gembloux
Annales de Zootechnie
Annales des Sciences Forestières
Annales du Tabac. Section 2
Annali dell'Istituto Sperimentale per la Cerealicoltura
Annali della Facoltà di Agraria, Università Cattolica del Sacro Cuore Milano
Annali della Facoltà di Agraria, Università degli Studi di Perugia
Annals of Agricultural Research
Annals of Applied Biology
Annals of Arid Zone
Annals of Bangladesh Agriculture
Annals of Biology (Ludhiana)
Annals of Botany
Annals of Entomology
Annals of Forestry
Annals of Plant Physiology
Annals of Plant Protection Sciences
Annals of the Missouri Botanical Garden
Annals of the New York Academy of Sciences
Annals of the Phytopathological Society of Japan
Annals of Warsaw Agricultural University SGGW-AR, Horticulture
Annual Report of the Society of Plant Protection of North Japan
Annual Review of Genetics
Annual Review of Plant Physiology and Plant Molecular Biology
Antisense Research and Development
Appita Journal
Applied and Environmental Microbiology
Applied Entomology and Zoology
Applied Plant Science
Aquatic Botany
Aquilo. Ser. Botanica
Arab Gulf Journal of Scientific Research
Arab Journal of Plant Protection
Arab Universities Journal of Agricultural Sciences
Arboriculture Fruitière
Archives of Biochemistry and Biophysics
Archives of Virology
Archivos de Zootecnia
Arkansas Farm Research
Arroz
Arroz en las Américas
ASCOLFI Informa
Asparagus Research Newsletter
Aspects of Applied Biology

Assiut Journal of Agricultural Sciences
Australasian Biotechnology
Australasian Plant Pathology
Australian Journal of Agricultural Research
Australian Journal of Botany
Australian Journal of Experimental Agriculture
Australian Journal of Plant Physiology
Australian Plant Introduction Review
Australian Plants
Australian Systematic Botany
Austrobaileya
Avance Agroindustrial
Bacterial Wilt Newsletter
Bahçe
Bangladesh Journal of Scientific and Industrial Research
Banko Janakari
Barley Genetics Newsletter
Bayerisches Landwirtschaftliches Jahrbuch
Behavior Genetics
Beiträge für Forstwirtschaft und Landschaftsökologie
Beiträge zur Biologie der Pflanzen
Berita ISOPB
Bhutan Journal of Animal Husbandry
Bio/Technology
Biochemical and Biophysical Research Communications
Biochemical Genetics
Biochemical Journal (London)
Biochemical Society Transactions
Biochemical Systematics and Ecology
Biochemistry and Molecular Biology International
Biochimica et Biophysica Acta, Gene Structure and Expression
Biochimica et Biophysica Acta, Protein Structure and Molecular Enzymology
Biochimie
Biodiversity and Conservation
BioEssays
Biofutur
Biológia (Bratislava)
Biological & Pharmaceutical Bulletin
Biological Journal of the Linnean Society
Biological Reviews of the Cambridge Philosophical Society
Biologicheskiĭ Zhurnal
Biologisches Zentralblatt
Biology and Fertility of Soils
Biology Bulletin of the Russian Academy of Sciences
Biology of the Cell
Biometrical Journal
Biometrics
Bioresource Technology
BioScience
Biotechnic & Histochemistry
BioTechniques
Biotechnology and Applied Biochemistry
Biotechnology and Development Monitor
Biotechnology Education
Biotechnology Letters
Biotechnology Techniques
Biotekhnologiya
Biotronics
Biovigyanam
Biuletyn Instytutu Hodowli i Aklimatyzacji Roślin
Blumea
Bodenkultur
Bois et Forêts des Tropiques
Boletim da Sociedade Broteriana
Boletim de Indústria Animal
Boletim Técnico - Empresa de Pesquisa Agropecuária e Difusão de Tecnologia de Santa Catarina S.A.
Boletín de Sanidad Vegetal, Plagas
Boletín FDA
Boletín Técnico de Ciencias Biológicas, Universidad de la República (Salto)
Botanica Acta
Botanica Complutensis
Botanica Helvetica
Botanical Bulletin of Academia Sinica
Botanical Gazette (Chicago)
Botanical Journal of the Linnean Society
Botanical Research
Botanical Review
Botanicheskiĭ Zhurnal
Bothalia
Bragantia
Breeding Science
British Sugar Beet Review
Brittonia
BSES Bulletin
Buletin Perkebunan
Buletinul Academiei de Ştiinţe a Republicii Moldova. Ştiinţe Biologice şi Chimice
Buletinul Universităţii de Ştiinţe Agricole Cluj-Napoca. Seria Agricultură şi Horticultură
Bulletin - Connecticut Agricultural Experiment Station
Bulletin - Louisiana Agricultural Experiment Station
Bulletin - Mississippi Agricultural and Forestry Experiment Station
Bulletin - Pennsylvania Flower Growers
Bulletin d'Information - CORESTA
Bulletin de la Société Botanique de France, Lettres Botaniques
Bulletin de la Société Entomologique de France
Bulletin des Recherches Agronomiques de Gembloux
Bulletin du Muséum National d'Histoire Naturelle. Section B, Adansonia
Bulletin OEPP
Bulletin of Animal Health and Production in Africa
Bulletin of Botanical Research
Bulletin of Research Institute of Agricultural Resources, Ishikawa Agricultural College
Bulletin of Taichung District Agricultural Improvement Station
Bulletin of the Akita Fruit-Tree Experiment Station
Bulletin of the Akita Prefectural College of Agriculture
Bulletin of the College of Agriculture and Veterinary Medicine, Nihon University
Bulletin of the College of Agriculture, Utsunomiya University
Bulletin of the Faculty of Agriculture, Hirosaki University
Bulletin of the Fruit Tree Research Station
Bulletin of the Kyushu National Agricultural Experiment Station
Bulletin of the National Institute of Agrobiological Resources
Bulletin of the National Research Institute of Vegetables, Ornamental Plants and Tea, Series B
Bulletin of the Research Institute for Bioresources, Okayama University
Bulletin of the Shikoku National Agricultural Experiment Station
Bulletin of the Torrey Botanical Club
Bulletin OILB/SROP
Bulletin Potravinárskeho Výskuma
Byulleten' Glavnogo Botanicheskogo Sada
Cactus and Succulent Journal
Café, Cacao, Thé
Cahiers Agricultures
California Agriculture
Camellia Journal
Canadian Entomologist
Canadian Journal of Animal Science
Canadian Journal of Botany
Canadian Journal of Forest Research
Canadian Journal of Microbiology
Canadian Journal of Plant Pathology
Canadian Journal of Plant Science
Canadian Plant Disease Survey
Capsicum & Eggplant Newsletter
Capsicum Newsletter
Carbohydrate Polymers
Carta Trimestral - CENICAÑA, Centro de Investigación de la Caña de Azúcar de Colombia
Cashew
CBN Newsletter
CDR Working Papers
Cell (Cambridge)
Cell Biology International
Cellular and Molecular Biology
Cellular and Molecular Biology Research
Centralblatt für das Gesamte Forstwesen
Cercetări Agronomice în Moldova
Cereal Chemistry
Cereal Foods World
Cereal Research Communications
Chemistry of Natural Compounds
China Citrus
China Cottons
China Fruits
China Sugarbeet
China Tea
China's Fiber Crops
Chinese Journal of Biotechnology
Chinese Journal of Rice Science
Chinese Vegetables
Chmelařství
Chromosoma
Ciência e Cultura (São Paulo)
Ciencia e Investigación Agraria
Ciência Rural
CIMAP Newsletter
CIP Research Guide
Circular - Alabama Agricultural Experiment Station, Auburn University
Cladistics
Colección Información Técnica Agraria. Serie Agricultura
Colture Protette
Commonwealth Forestry Review
Communications in Soil Science and Plant Analysis
Compact Fruit Tree
Comparative Biochemistry and Physiology. B, Comparative Biochemistry

Comptes Rendus de l'Académie Bulgare des Sciences
Comptes Rendus de l'Académie d'Agriculture de France
Comptes Rendus de l'Académie des Sciences. Series 3, Sciences de la Vie
Computer Applications in the Biosciences
Comunicado Técnico - EMCAPA
Conservation Biology
Contributions from the University of Michigan Herbarium
Cooperative Sugar
Coton et Fibres Tropicales
Critical Reviews in Plant Sciences
Crop Genetic Resources
Crop Improvement
Crop Protection
Crop Research (Hisar)
Crop Science
CRRN, Chinese Rice Research Newsletter
Cryo-letters
Cryobiology
CSIR News
Cuba Azúcar
Cuban Journal of Agricultural Science
Cultivar (Paris)
Cultivated Mushroom Research (CMR) Newsletter
Cultivos Tropicales
Current Agriculture
Current Biology
Current Genetics
Current Opinion in Biotechnology
Current Opinion in Cell Biology
Current Opinion in Genetics & Development
Current Research - University of Agricultural Sciences (Bangalore)
Current Science
Cytobios
Cytologia
Cytology
Cytotechnology
Daphne, Revista do Herbário PAMG da EPAMIG
Darwiniana
Deciduous Fruit Grower
Developmental Biology
Developmental Genetics
Dinteria
Dirasat. Series B, Pure and Applied Sciences
Discussion Paper - Department of Agriculture and Livestock, Papua New Guinea
Diversity
DNA and Cell Biology
DNA Sequence
Documents de Travail du CIRAD-CA
Doğa, Türk Botanik Dergisi
Doğa, Türk Tarım ve Ormancılık Dergisi
Doklady Akademii Nauk Belarusi
Doklady Rossiĭskoĭ Akademii Sel'skokhozyaĭstvennykh Nauk
Doklady Vsesoyuznoĭ Ordena Lenina i Ordena Trudovogo Krasnogo Znameni Akademii Sel'skokhozyaĭstvennykh Nauk imeni V. I. Lenina
Doklady, Biochemistry
Doklady, Biological Sciences
East African Agricultural and Forestry Journal
Ecological Entomology
Ecological Modelling
Ecologist
Economic and Political Weekly
Economic Botany
Eesti Teaduste Akadeemia Toimetised, Bioloogia
Ege Üniversitesi Ziraat Fakültesi Dergisi
Egyptian Journal of Agronomy
Egyptian Journal of Horticulture
Eksperimentinė Biologija
Elaeis
EMBO Journal
Enotecnico
Entomologia Experimentalis et Applicata
Environment and Ecology
Environment Update (Leamington Spa)
Environmental and Experimental Botany
Environmental Entomology
Environmental Pollution
Erhvervs-jordbruget
Erwerbsobstbau
Euphytica
European Journal of Agronomy
European Journal of Biochemistry
European Journal of Forest Pathology
Eurosoya
Evolution
Evolutionary Trends in Plants
Experientia
Experimental & Applied Acarology
Experimental Agriculture
Experimental Genetics
Experimental Mycology
FABIS Newsletter
Fagnytt Hagebruk
Fagopyrum
FAO Forestry Paper
Farmers Leaflet
Farmers' Newsletter, Large Area
FEBS Letters
Feddes Repertorium
Fett Wissenschaft Technologie
Field Crops Research
Fitopatología
Fitopatologia Brasileira
Fitopatología Venezolana
Fiziologiya na Rasteniyata
Fiziologiya Rasteniĭ
Flavour and Fragrance Journal
Flora (Jena)
Florida Entomologist
Focus on Seed Programs
Folia Geobotanica et Phytotaxonomica
Folia Horticulturae
Folia Microbiologica
FONAIAP Divulga
Food Australia
Food Biotechnology
Food Chemistry
Food Science and Technology Today
Forest Ecology and Management
Forest Genetic Resources Information
Forest Products Journal
Forest Science
Forestry (Oxford)
Forestry Abstracts
Forêt-Entreprise
FORSPA Publication
Forstarchiv
Fragmenta Floristica et Geobotanica
Frugt og Bær
Fruit Belge
Fruit Science Reports
Fruit Varieties Journal
Fruits (Paris)
Fruitteelt (Den Haag)
Fujian Agricultural Science and Technology
Functional Ecology
Furrow (Moline)
Gansu Nongye Daxue Xuebao
Garden (London)
Gartenbau Magazin
Gartenbauwissenschaft
Gemüse (München)
Gene
Genes & Development
Genetic Epidemiology
Genetic Resources and Crop Evolution
Genetic Resources Communication
Genetica
Genetica Polonica
Genetical Research
Genetics
Genetics, Selection, Evolution
Genetika (Moskva)
Genetika a Šlechtění
Genome
Genomics (San Diego)
Gesunde Pflanzen
Grana
Grasas y Aceites (Sevilla)
Grass and Forage Science
Grassland of China
Groenten + Fruit, Vollegrondsgroenten
Groundnut News
Guangdong Agricultural Sciences
Gujarat Agricultural University Research Journal
Haryana Agricultural University Journal of Research
Hassadeh
Health Physics
Helia
Henan Nongye Kexue
Herba Gallica
Hereditas (Beijing)
Hereditas (Landskrona)
Heredity
HGCA Project Report
Histochemical Journal
Hodowla Roślin, Aklimatyzacja i Nasiennictwo
Holly Society Journal
Holzforschung
Horticultura Brasileira
Horticultural Journal

Horticultural Reviews
Horticulture in New Zealand
HortScience
HortTechnology
Hubei Agricultural Sciences
Human Ecology (New York)
Hungarian Agricultural Research
IAR Newsletter of Agricultural Research
IAWA Journal
IBPGR Newsletter for Asia, the Pacific and Oceania
IDRC Manuscript Reports
IITA Research
In Vitro Cellular & Developmental Biology - Plant
Indian Agriculturist
Indian Cocoa, Arecanut and Spices Journal
Indian Coconut Journal (Cochin)
Indian Farming
Indian Forester
Indian Horticulture
Indian Journal of Agricultural Sciences
Indian Journal of Agronomy
Indian Journal of Biochemistry & Biophysics
Indian Journal of Experimental Biology
Indian Journal of Forestry
Indian Journal of Genetics & Plant Breeding
Indian Journal of Horticulture
Indian Journal of Mycology and Plant Pathology
Indian Journal of Natural Rubber Research
Indian Journal of Plant Physiology
Indian Journal of Plant Protection
Indian Journal of Pulses Research
Indian Journal of Virology
Indian Perfumer
Indian Phytopathology
Indian Review of Life Sciences
Indian Sugar
Indian Textile Journal
Indonesian Agricultural Research & Development Journal
Indonesian Journal of Crop Science
Indonesian Journal of Tropical Agriculture
Industrial Crops and Products
Industrie Alimentari
Industries Alimentaires et Agricoles
Infomusa
INFORM - International News on Fats, Oils and Related Materials
Informativo ABRATES
Informativo de Tecnología Agropecuaria para la Región Semiárida Pampeana
Informatore Agrario
Informe Técnico - Estación Experimental Agropecuaria Pergamino
Infos (Paris)
Inligtingsbulletin - Instituut vir Tropiese en Subtropiese Gewasse
Insect Science and its Application
Institute of Botany, Academia Sinica Monograph Series
INTA Información para Extensionistas
International Agrophysics
International Chickpea Newsletter
International Journal of Food Sciences and Nutrition
International Journal of Pest Management
International Journal of Pharmacognosy
International Journal of Plant Sciences
International Journal of Tropical Agriculture
International Journal of Tropical Plant Diseases
International Pigeonpea Newsletter
International Rice Research Newsletter
International Rice Research Notes
Investigación Agraria, Producción y Protección Vegetales
Investigación Agraria, Sistemas y Recursos Forestales
Iranian Journal of Agricultural Sciences
Iranian Journal of Botany
Iranian Journal of Natural Resources
Iranian Journal of Plant Pathology
Irish Journal of Agricultural and Food Research
Irish Naturalists' Journal
Irrigation Science
Israel Agresearch
Israel Journal of Botany
ITEA Producción Vegetal
Izvestiya Akademii Nauk SSSR. Seriya Biologicheskaya
Izvestiya Timiryazevskoĭ Sel'skokhozyaĭstvennoĭ Akademii
Jaarboekje - Stichting Nederlands Instituut voor Brouwgerst, Mout en Bier
Japanese Journal of Applied Entomology and Zoology
Japanese Journal of Breeding
Japanese Journal of Crop Science
Japanese Journal of Genetics
Japanese Journal of Tropical Agriculture
JARQ, Japan Agricultural Research Quarterly
Jiangsu Agricultural Sciences
Jiangsu Journal of Agricultural Sciences
JIAS, Journal of the Iowa Academy of Science
JICA Ref Series
Journal - American Society of Sugar Cane Technologists
Journal International des Sciences de la Vigne et du Vin
Journal of Agricultural and Food Chemistry
Journal of Agricultural Entomology
Journal of Agricultural Research of China
Journal of Agricultural Science
Journal of Agricultural Science and Technology
Journal of Agricultural Science, Tokyo Nogyo Daigaku
Journal of Agriculture of the University of Puerto Rico
Journal of Agronomy and Crop Science
Journal of Animal and Feed Sciences
Journal of Animal Physiology and Animal Nutrition
Journal of Animal Science
Journal of Applied Entomology
Journal of Applied Seed Production
Journal of Biochemistry (Tokyo)
Journal of Biogeography
Journal of Biological Chemistry
Journal of Biosciences
Journal of Biotechnology
Journal of Cell Biology
Journal of Cell Science
Journal of Cereal Science
Journal of Chemical Ecology
Journal of Coffee Research
Journal of Ecology (Oxford)
Journal of Economic Entomology
Journal of Entomological Research
Journal of Entomological Science
Journal of Environmental Horticulture
Journal of Environmental Quality
Journal of Essential Oil Research
Journal of Evolutionary Biology
Journal of Experimental Botany
Journal of Food Composition and Analysis
Journal of Food Science
Journal of Fruit Science
Journal of Fujian Agricultural College
Journal of General and Applied Microbiology
Journal of General Microbiology
Journal of General Virology
Journal of Genetics
Journal of Genetics & Breeding
Journal of Hangzhou University
Journal of Hebei Agricultural University
Journal of Herbs, Spices & Medicinal Plants
Journal of Heredity
Journal of Horticultural Science
Journal of Huazhong Agricultural University
Journal of Hunan Agricultural College
Journal of Insect Science
Journal of Japanese Botany
Journal of Jiangsu Agricultural College
Journal of Jilin Agricultural University
Journal of Liquid Chromatography
Journal of Maharashtra Agricultural Universities
Journal of Mathematical Biology
Journal of Molecular Biology
Journal of Molecular Evolution
Journal of Mycopathological Research
Journal of Nanjing Agricultural University
Journal of Natural Rubber Research
Journal of Northeast Agricultural College
Journal of Nuclear Agriculture and Biology
Journal of Nutritional Biochemistry
Journal of Oilseeds Research
Journal of Phytopathology
Journal of Plant Growth Regulation
Journal of Plant Nutrition
Journal of Plant Physiology
Journal of Potassium Research
Journal of Production Agriculture
Journal of Range Management
Journal of Research - Assam Agricultural University
Journal of Research, Punjab Agricultural University
Journal of Root Crops
Journal of Scientific & Industrial Research
Journal of Seed Technology
Journal of Shandong Agricultural Science
Journal of Shandong Agricultural University
Journal of Shanghai Agricultural College
Journal of Shenyang Agricultural University
Journal of Sichuan Agricultural University
Journal of Soil and Water Conservation
Journal of Soils and Crops
Journal of South China Agricultural University
Journal of Southwest Agricultural University
Journal of Spices and Aromatic Crops
Journal of Stored Products Research
Journal of Sustainable Agriculture

Journal of Taiwan Livestock Research
Journal of Tea Science
Journal of the American Oil Chemists' Society
Journal of the American Society for Horticultural Science
Journal of the Assam Science Society
Journal of the Australian Entomological Society
Journal of the Entomological Society of British Columbia
Journal of the Faculty of Agriculture, Iwate University.
Journal of the Indian Potato Association
Journal of the Indian Society for Cotton Improvement
Journal of the Japanese Forestry Society
Journal of the Japanese Society for Horticultural Science
Journal of the Kansas Entomological Society
Journal of the Korean Society for Horticultural Science
Journal of the Korean Society of Tobacco Science
Journal of the National Research Council of Thailand
Journal of the National Science Council of Sri Lanka
Journal of the Orchid Society of India
Journal of the Science of Food and Agriculture
Journal of the Southern African Society for Horticultural Sciences
Journal of Theoretical Biology
Journal of Tropical Forest Science
Journal of Turkish Phytopathology
Journal of Wood Chemistry and Technology
Jugoslovensko Voćarstvo
Kaen Kaset = Khon Kaen Agriculture Journal
Karnataka Journal of Agricultural Sciences
Kartofel' i Ovoshchi
Kartoffelbau
Kasetsart Journal, Natural Sciences
Kenya Coffee
Kew Bulletin
Kew Magazine
Korean Journal of Applied Entomology
Korean Journal of Crop Science
Korean Journal of Plant Taxonomy
Kühn-Archiv
Kukuruza i Sorgo
Landbauforschung Völkenrode
Landscape and Urban Planning
Landwirtschaft Schweiz
Latvijas Zinātņu Akadēmijas Vēstis. B Daļa, Dabaszinātnes
Lavoura Arrozeira
Legume Research
Lejeunia
Lens
Leucaena Research Reports
Lilloa
Lindleyana
Listy Cukrovarnické a Řepařské
Lotus Newsletter
Louisiana Agriculture
Madras Agricultural Journal
Madroño
Magnolia
Mais
Maize Genetics Cooperation Newsletter
Manejo Integrado de Plagas
Maydica
Mechanisms of Ageing and Development
Meddelande från Statens Utsädeskontroll
Mededeling - Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare
Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent
Memoirs of the College of Agriculture, National Taiwan University
Memoirs of the Faculty of Agriculture, Hokkaido University
Menara Perkebunan
Mezhdunarodnyĭ Sel'skokhozyaĭstvennyĭ Zhurnal
Mikologiya i Fitopatologiya
Mikrobiologicheskiĭ Zhurnal
Miscellaneous Publication - Texas Agricultural Experiment Station
Miscellaneous Publication of the Tohoku National Agricultural Experiment Station
Miscellaneous Reports - Agricultural Research Institute, Ministry of Agriculture and Natural Resources (Nicosia)
Mitteilungen der Versuchsanstalt für Pilzanbau der Landwirtschaftskammer Rheinland Krefeld-Grosshüttenhof
Mitteilungen Klosterneuburg, Rebe und Wein, Obstbau und Früchteverwertung
Mokuzai Gakkaishi = Journal of the Japan Wood Research Society
Molecular and Cellular Biology
Molecular and General Genetics
Molecular Biology (New York)
Molecular Biology and Evolution
Molecular Biology of the Cell
Molecular Ecology
Molecular Plant-Microbe Interactions
Monatsschrift für Brauwissenschaft
Monografías - Instituto Nacional de Investigacion y Technologia Agraria y Alimentaria
Monthly Bulletin - Department of Agriculture, Fisheries & Parks, Bermuda
Monti e Boschi
Moscow University Biological Sciences Bulletin
Mutation Breeding Newsletter
Mutation Breeding Review
Mutation Research, Fundamental and Molecular Mechanisms of Mutagenesis
Mutation Research, Genetic Toxicology Testing
Mutation Research, Mutation Research Letters
Mycologia
Mysore Journal of Agricultural Sciences
Nachrichtenblatt des Deutschen Pflanzenschutzdienstes
National Academy Science Letters
Nature (London)
Naturopa
NBRI Newsletter
Nematologia Mediterranea
Netherlands Journal of Plant Pathology
New Agriculturist
New Botanist
New Forests
New Phytologist
New Zealand Journal of Agricultural Research
New Zealand Journal of Botany
New Zealand Journal of Crop and Horticultural Science
New Zealand Journal of Forestry Science
Newsletter - Associated Agricultural Development Foundation
Newsletter - Sugarcane Breeding Institute
Nghien Cuu Lua, Omonrice
Ningxia Journal of Agro-Forestry Science and Technology
Nippon Eiyo Shokuryo Gakkaishi = Journal of the Japanese Society of Nutrition and Food Science
Nippon Sochi Gakkaishi = Journal of Japanese Society of Grassland Science
Nordic Journal of Botany
Nordisk Jordbruksforskning
Northern Fruits of China
Norwegian Journal of Agricultural Sciences
Növénytermelés
Növényvédelem
Novon
Nucleic Acids Research
Nucleus (Calcutta)
Nuytsia
Ochrana Rostlin
Oecologia
Oikos
Oil Crops of China
Oléagineux (Paris)
Oléoscope
Olivæ
Onion Newsletter for the Tropics
Options Méditerranéennes. Série A, Séminaires Méditerranéens
Orchardist of New Zealand
Orissa Journal of Agricultural Research
ORSTOM Actualités
Outlook on Agriculture
Oxford Agrarian Studies
PAC Working Paper - Pakhribas Agricultural Centre
Pakistan Development Review
Pakistan Journal of Botany
Pakistan Journal of Phytopathology
Pakistan Journal of Scientific and Industrial Research
Pakistan Sugar Journal
Pamiętnik Puławski
Papua New Guinea Journal of Agriculture, Forestry and Fisheries
Parasitica
Pastos y Forrajes
PCR Methods and Applications
Peanut Science
Pennsylvania Fruit News
Pesquisa Agropecuária Brasileira
Pesticide Biochemistry and Physiology
Pesticide Science
PGRC/E Germplasm Newsletter
Philippine Entomologist
PHM Revue Horticole
Photochemistry and Photobiology
Photosynthesis Research
Photosynthetica
Physiologia Plantarum
Physiological and Molecular Plant Pathology
Phytochemistry
Phytomorphology
Phyton (Horn)
Phytoparasitica
Phytopathologia Mediterranea
Phytopathology
Phytophylactica
Phytoprotection

Phytotherapy Research
Plant and Cell Physiology
Plant and Soil
Plant Breeding
Plant Breeding Abstracts
Plant Breeding Reviews
Plant Cell
Plant Cell Reports
Plant Cell, Tissue and Organ Culture
Plant Disease
Plant Disease Notice - Central Science Laboratory
Plant Disease Research
Plant Genetic Resources Newsletter
Plant Growth Regulation
Plant Journal
Plant Molecular Biology
Plant Molecular Biology Reporter
Plant Pathology
Plant Pathology Bulletin
Plant Physiology
Plant Physiology & Biochemistry (New Delhi)
Plant Physiology and Biochemistry (Paris)
Plant Physiology Communications
Plant Protection Bulletin (Faridabad)
Plant Science (Limerick)
Plant Systematics and Evolution
Plant Varieties & Seeds
Plant Varieties Journal
Plant Variety Protection Office Official Journal
Plant, Cell and Environment
Planta
Planta Medica
Planter
Planters' Chronicle
Plantsman
Plantvoedsel
PNG Coffee
Poljoprivredna Znanstvena Smotra
Pomme de Terre Française
Postępy Nauk Rolniczych
Postharvest Biology and Technology
Potato Research
Potravinářské Vědy
Prace z Zakresu Nauk Rolniczych
Pratacultural Science
Preslia
Principes
Probleme de Genetică Teoretică şi Aplicată
Proceedings of the Annual Congress - South African Sugar Technologists' Association
Proceedings of the Indian National Science Academy. Part B, Biological Sciences
Proceedings of the Japanese Association of Mycotoxicology
Proceedings of the Japanese Society of Sugar Beet Technologists
Proceedings of the National Academy of Sciences of the United States of America
Proceedings of the National Science Council, Republic of China. Part B, Life Sciences
Proceedings of the New Zealand Grassland Association
Proceedings of the New Zealand Society of Animal Production
Proceedings of the Royal Society of London. Series B, Biological Sciences
Proceedings of the Section Experimental and Applied Entomology of the Netherlands Entomological Society
Productions Animales
Progrès Agricole et Viticole
Progress in Botany
Progress Report - Texas Agricultural Experiment Station
Progressive Farming
Progressive Horticulture
Prophyta
Proteccion de Plantas
Protoplasma
PSP Pflanzenschutz Praxis
Pyrethrum Post
Quarterly Journal of Forestry
Quarterly Newsletter - Tea Research Foundation of Central Africa
Quarterly Review of Biology
Quick Bibliography Series - US Department of Agriculture
Rachis
RAFI Communique
Range Management & Agroforestry
Rapport - Proefstation voor de Rundveehouderij, Schapenhouderij en Paardenhouderij
Rapporter och Uppsatser - Institutionen för Skogsgenetik, Sveriges Lantbruksuniversitet
Rasteniev"dni Nauki
RDA Journal of Agricultural Science, Biotechnology
RDA Journal of Agricultural Science, Crop Protection
Report - Cucurbit Genetics Cooperative
Report of the Taiwan Sugar Research Institute
Research & Training Newsletter (Dar es Salaam)
Research Bulletin - International Crops Research Institute for the Semi-Arid Tropics
Research Bulletin of the Hokkaido National Agricultural Experiment Station
Research Highlights - Tropical Agriculture Research Center
Research Journal of Food and Agriculture
Research Report - Georgia Agricultural Experiment Stations
Research Report - Mississippi Agricultural and Forestry Experiment Station
Research Reports of the Rural Development Administration, Crop Protection
Research Reports of the Rural Development Administration, Horticulture
Research Series - Arkansas Agricultural Experiment Station
Resistant Pest Management
Resources (Nairobi)
Resources (Washington)
REUR Technical Series - FAO Regional Office for Europe
Review of Research Work at the Faculty of Agriculture, Belgrade
Revista Argentina de Producción Animal
Revista Biología (Habana)
Revista Brasileira de Fisiologia Vegetal
Revista Brasileira de Genética
Revista Brasileira de Sementes
Revista Ceres
Revista Chapingo
Revista Colombiana de Entomología
Revista de Ciências Agrárias
Revista de Ciências Farmacêuticas
Revista de la Facultad de Agronomía, Universidad Central de Venezuela
Revista de la Facultad de Agronomía, Universidad de Zulia
Revista Española de Ciencia y Tecnología de Alimentos
Revista Fitotecnia Mexicana
Revista Mexicana de Fitopatología
Revue Agricole et Sucrière de l'Île Maurice
Revue de l'Agriculture
Revue de Zoologie Africaine
Revue Forestière Française
Revue Roumaine de Biologie. Série de Biologie Végétale
Revue Suisse d'Agriculture
Revue Suisse de Viticulture, d'Arboriculture et d'Horticulture
Rhodora
Rice Genome
Rivista di Agricoltura Subtropicale e Tropicale
Rivista di Frutticoltura e di Ortofloricoltura
Rivista Italiana delle Sostanza Grasse
Roczniki Nauk Rolniczych. Seria A, Produkcja Roślinna
Roczniki Nauk Rolniczych. Seria E, Ochrona Roślin
Roczniki Państwowego Zakładu Higieny
Rostlinná Výroba
Rozprawy - Akademia Rolnicza w Szczecinie
Ruizia
Rural Research
Russian Biotechnology
Russian Journal of Plant Physiology
Russian Plant Physiology
SACCAR Newsletter
Sadovodstvo i Vinogradarstvo
Sakharnaya Svekla
Sandakania
Sarawak Museum Journal
Sarhad Journal of Agriculture
SAT News
Savanna
Sborník - Akademie Zemědělských věd ČSFR
Sborník - Jihočeská Univerzita Zemědělská Fakulta, České Budějovice. Fytotechnická Řada
Sborník Vysoké Školy Zemědělské v Praze, Fakulta Agronomická. Řada A, Rostlinná Výroba
Schriften aus der Forstlichen Fakultät der Universität Göttingen und der Niedersächsischen Forstlichen Versu
Schweizerische Zeitschrift für Obst- und Weinbau
Science (Washington)
Science of Food, Agriculture, and Environment
Science Reports of Faculty of Agriculture, Kobe University
Science Reports of the Yokohama National University. Section 2 (Biology and Geology)
Sciences des Aliments
Scientia Agricultura Sinica
Scientia Horticulturae
Scientific Reports of the Faculty of Agriculture, Okayama University
Scientific Reports of the Kyoto Prefectural University, Agriculture
Scottish Forestry
Seed and Plant
Seed Research
Seed Science and Technology
Seed Science Research
Seed World (Des Plaines)
Seedling News

Sel'skokhozyaĭstvennaya Biologiya
Selskostopanska Nauka
Sementi Elette
Seminars in Virology
Serie Técnica - Centro de Investigación de la Caña de Azúcar de Colombia
Sexual Plant Reproduction
Shaanxi Journal of Agricultural Sciences
Sibirskiĭ Biologicheskiĭ Zhurnal
Silva Lusitana
Silvae Genetica
Simiente
SISSTA Sugar Journal
Soil Biology & Biochemistry
Sorghum Newsletter
South African Forestry Journal
South African Journal of Botany
South African Journal of Plant and Soil
South African Sugar Journal
South Indian Horticulture
Southwestern Entomologist
Southwestern Naturalist
Soviet Agricultural Sciences
Soviet Biotechnology
Soviet Plant Physiology
Soybean Genetics Newsletter
Soybean Science
SP Rapport
Special Circular - Ohio Agricultural Research and Development Center
Special Publication - Taichung District Agricultural Improvement Station
Special Report - Iowa Agriculture & Home Economics Experiment Station, Iowa State University
Starch/Stärke
Studia Botanica
Suelo y Planta
Sugar Cane
Sugar Journal
Sugarcane Breeding Institute News Letter
Summa Phytopathologica
Svensk Frötidning
Sveriges Utsädesförenings Tidskrift
Swedish Journal of Agricultural Research
Symbiosis (Rehovot)
Systematic Botany
Systematic Botany Monographs
Tabacco
Taiwan Agriculture
Taiwan Sugar
Taxon
Tea
Technical Bulletin - Cyprus Agricultural Research Institute
Technical Bulletin - United States Department of Agriculture
Technical Communication - Department of Agricultural Development, South Africa
Technical Publication - ASEAN-Canada Forest Tree Seed Centre Project
Tecnica Molitoria
Tehqiqe
Telopea
Tennessee Farm and Home Science
Terra e Sole
Thaiszia
Theoretical and Applied Genetics
Theoretical Population Biology
Transgenic Research
Tree Physiology
Trees: Structure and Function
Trends in Biochemical Sciences
Trends in Biotechnology
Trends in Ecology & Evolution
Trends in Food Science & Technology
Trends in Genetics
Tropical Agriculture
Tropical Grasslands
Tropical Science
Tropicultura
Tsitologiya
Tsitologiya i Genetika
Turkish Journal of Biology
Two and a Bud
Underzoekverslag - Landbouw-Economisch Instituut
UNISWA Research Journal
Uspekhi Sovremennoĭ Biologii
Utah Science
Växtskyddsnotiser
Vedecké Práce Výskumného Ústavu Rastlinnej Výroby v Piešt'anoch
Vegetable Grower
Vegetable Growers Leaflet
Verhandlungen der Zoologisch-Botanischen Gesellschaft in Österreich
Vestnik Moskovskogo Universiteta, 16 (Biologiya)
Vestnik Sel'skokhozyaĭstvennoĭ Nauki (Moskva)
Vestsī Akademīī Navuk Belarusī. Seryya Bīyalagīchnykh Navuk
Vignevini
Vinohrad, Bratislava
Virginia Journal of Science
Virology (New York)
Vitis
Voprosy Pitaniya
VTT Tiedotteita
Wageningen Agricultural University Papers
Water, Air, and Soil Pollution
Watsonia
Webbia
Weed Science
Weed Technology
Wheat Information Service
Wiadomości Botaniczne
Wildflower
Willdenowia
Wirtschaftseigene Futter
Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin. Reihe Mathematisch/Naturwissenschaftliche
Wood and Fiber Science
Wood Science and Technology
Working Document - Centro Internacional de Agricultura Tropical
Working Paper Series - African Arid Lands, Scandinavian Institute of African Studies
World Journal of Microbiology & Biotechnology
Xinjiang Agricultural Sciences
Yakugaku Zasshi = Journal of the Pharmaceutical Society of Japan
Yearbook - South African Avocado Growers' Association
Yearbook - South African Litchi Growers' Association
Yüzüncü Yıl Üniversitesi Ziraat Fakültesi Dergisi
Zahradnictví
Zashchita Rasteniĭ (Moskva)
Zaštita Bilja
Zbornik Biotehniške Fakultete Univerze Edvarda Kardelja v Ljubljani, Kmetijstvo
Zeitschrift für Naturforschung. Section C, Biosciences
Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz
Zemledelie
Zeszyty Naukowe Akademii Rolniczej w Szczecinie, Rolnictwo
Zeszyty Naukowe Akademii Rolniczej we Wrocławiu, Technologia Żywności
Zeszyty Problemowe Postępów Nauk Rolniczych
Zhejiang Nongye Kexue
Zhongcaoyao = Chinese Traditional and Herbal Drugs
Zimbabwe Science News
Ziranziyuan
Zöldségtermesztési Kutató Intézet Bulletinje
Zuckerindustrie

Document Delivery Service

Coverage: We can provide copies of most articles cited in the CAB ABSTRACTS journals and database. Copyright law prohibits supply of more than one article from one periodical issue on any one occasion, and copying of complete publications.

Ordering: Please complete an order form, ensuring that you give full bibliographic details and attaching a copy of your reference source. Requests may also be sent by post, fax or telex, or placed through online ordering systems. The cost (detailed below) is for each article irrespective of length. Books, reports, etc. are charged at cost plus handling. UK customers must add VAT, and other EC customers must either quote their VAT number or add VAT (currently 17.5%).

Payment: Prepayment is required unless you have a CABI deposit account. Cheques, bank drafts or international money orders (not national postal orders) are accepted and should be made payable to CAB INTERNATIONAL. Sterling cheques should be drawn on a UK bank, and US$ cheques should be drawn on a US bank. Library Services Vouchers (details on request) provide an alternative and convenient method of prepayment.

------------- PHOTOCOPY REQUEST (PLEASE TYPE OR PRINT CLEARLY) ------------

To: CAB INTERNATIONAL, Library Services Centre, Silwood Park, Buckhurst Road,
Ascot, Berks SL5 7TA, UK. (Tel: 0344 872747/Fax: 0344 872901)

Please supply me (the undersigned) with the above item which I will use only for private research or study. I have not previously been supplied with a copy of the same material by any librarian, and will not supply a copy of it to anyone else. To the best of my knowledge, no one with whom I work or study has requested or will request substantially the same item for substantially the same purpose.

Signature .... Date........................

Author(s):

Article Title:

Journal/Book Title:

Year: Vol: Part: Pages:

Please attach a copy of your source of reference

Despatch to:	Tel. No:
	Fax No:
	VAT No:
	Order No:

Delivery Method (*Tick one box*)	Payment Method (*Tick one box*)
☐ Post (£7.50/US$14.00) + VAT in UK	☐ Payment enclosed £/$ ....
☐ Fax (£17.50/US$33.00) + VAT in UK	☐ Charge Deposit Account No. ....

INFORMATION SERVICES AND PUBLICATIONS

Over 100 scientists/linguists in CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry, aspects of human health, and allied disciplines. Over 12,000 serials and many other publications are scanned, and over 160,000 bibliographic records are compiled each year for input to CABI's main databases, CAB ABSTRACTS and CAB HEALTH. In addition, a current awareness service, CABAccess, provides fast, unrivalled access to the key literature in agriculture and bioscience.

Both CAB ABSTRACTS and CAB HEALTH are available online, and a wide range of information products are derived from them.

ABSTRACT JOURNALS

Printed journals covering broad disciplines as well as specialist interests. Some journals also contain news and other information including review articles. Also available on floppy disk.

CD-ROM

CAB ABSTRACTS on Compact Disc, the CABCD, available back to 1973.

CAB HEALTH - available back to 1973.

CAB SPECTRUM – 10 subject-specific discs containing at least 20 years of information on each of the major disciplines.

CAB COLLECTION – titles combining data from CAB ABSTRACTS with complementary information from other sources.

MAGNETIC TAPES

Organizations with access to mini or mainframe computers may lease all or part of the CAB ABSTRACTS database.

CAB PROFILES

Personalized current awareness profiles based on the most recent input to the database, tailored to individual needs.

ANNOTATED BIBLIOGRAPHIES

Printed or electronic compilations on specific topics.

CAB ALERTS

A monthly current awareness service providing subscribers with the search results from standard profiles.

DOCUMENT DELIVERY SERVICE

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK.

In addition to database products, CABI publishes authoritative reference books, directories, primary journals and serial publications.

PRIMARY JOURNALS

Bulletin of Entomological Research, Seed Science Research, Journal of Helminthology, Soil Use and Management, Outlook on Agriculture and *Meat Focus International.*

NEWSLETTERS

Authoritative, accurate and up-to-date synopses of current topics reflected in the international media as well as the technical, scientific and medical press.

SERIAL PUBLICATIONS

Index of Current Research on Pigs, Distribution Maps of Pests, Distribution Maps of Plant Diseases, Bibliography of Systematic Mycology, Descriptions of Pathogenic Fungi & Bacteria, Index of Fungi, and *Systema Ascomycetum.*

BOOKS

CABI has an active book publishing programme and publishes over 60 new titles every year. Some of which are available in electronic form.

Scientific software and reference tools

ANI-CD - An authority file containing approximately 100,000 anthropod names with preferred terms, synonyms, common names, taxonomic positions and bibliographic references.

CABIKEY - An interactive diagnostic key for the identification of insects and other organisms. The first CABIKEY application covers major beetle families.

For further information, contact:

CAB INTERNATIONAL

Headquarters
Wallingford
Oxon OX10 8DE
UK
Tel: (01491) 832111
Telex: 847964 (COMAGG G)
Fax: (01491) 833508

North America
845 North Park Avenue
Tucson, Arizona 85719
USA
Tel: (800) 528 4841
(602) 621 7897
Fax: (602) 621 3816

Asia
PO Box 11872
50760 Kuala Lumpur
Malaysia
Tel: (03) 255 2922
Telex: 28031 (MA CABI)
Fax: (03) 255 1888

Caribbean
Gordon Street
Curepe
Trinidad and Tobago
Tel: (809) 662 4173
Telex: 0294 24438 (CARIRI)
Fax: (809) 663 2859

IBC-01

Printed by Unwin Brothers Ltd., The Gresham Press, Old Woking, Surrey, U.K.
A Member of the Martins Printing Group

CAB INTERNATIONAL
Wallingford, Oxon OX10 8DE, UK
Tel: (01491) 832111; Fax: (01491) 833508

THE ORGANIZATION

CAB INTERNATIONAL (CABI) is an international, inter-governmental organization established in 1928. It is owned by its member governments, which currently number 36. The organization is largely self-supporting financially, through the sale of its products and services, and other sources of income.

CABI is dedicated to improving human welfare worldwide through the dissemination, application and generation of scientific knowledge in support of sustainable development, with emphasis on agriculture, forestry, human health and the management of natural resources, and with particular attention to the needs of developing countries.

INFORMATION SERVICES

Scientific and technical information services are provided, derived principally from bibliographic databases built by CABI staff from the world's relevant published literature, with assistance from freelance workers and contracted organizations.

CABI's main databases, CAB ABSTRACTS and CAB HEALTH cover:

agriculture - forestry and forest products - field crops - grasslands - horticulture - crop protection - plant and animal breeding - veterinary science - leisure, recreation and tourism - rural sociology and development - environmental sciences - soils, land and water management - biotechnology - human and animal nutrition - human and animal parasitology - public health - communicable diseases -AIDS - tropical diseases - community health.

Outputs from these databases are distributed in printed form, and in electronic form on diskette, CD-ROM (compact disc) and magnetic tape. Online access is provided by commercial database vendors. These products and services are used by research scientists, teachers and students in higher education, development planners, health workers, and other professionals. Copies of source documents are available through CABI's Document Delivery Service.

CABI also publishes books, primary journals, newsletters and training manuals.

Research and development is undertaken in innovative information systems. Training in information management is offered, especially for developing countries. Advice and practical assistance are given in the design and implementation of science-based information systems, and in the use of modern information technology. Where necessary, partnerships with development assistance agencies are sought to help developing countries acquire the products and services they need.

For further details of all CABI's information products and services see inside back cover.

SCIENTIFIC SERVICES

CABI's scientific services are centred on its four Institutes.

International Institute of Entomology
56 Queen's Gate, London, SW7 5JR, UK, and in the Natural History Museum

International Institute of Parasitology
395a Hatfield Road, St Albans, Herts AL4 OXU, UK

International Mycological Institute
Bakeham Lane, Egham, Surrey TW20 9TY, UK

International Institute of Biological Control
Silwood Park, Buckhurst Road, Ascot, Berks SL5 7TA, UK, with field stations in Trinidad & Tobago, Switzerland, Pakistan, Malaysia and Kenya.

The services provided include:

- authoritative identification of crop pests and pathogens, and parasitic helminths
- survey and diagnosis of plant health problems
- support for integrated pest management and biological control
- biosystematic research on arthropods, micro-organisms, nematodes and helminths
- diagnosis of biodeterioration problems for industry
- research on human mycoses and tropical parasitic diseases
- training, consultancy and advice in all these areas

CABI also provides the Technical Secretariat of the Consultative Group for BioNET INTERNATIONAL, an international cooperative endeavour dedicated to the development of effective biosystematic capabilities and services in developing countries.

© 1995 CAB INTERNATIONAL. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, mechanical, electronic, by photocopying, recording or otherwise, without the prior written permission of CAB INTERNATIONAL